

*Innovating for the
Blue Economy:
Water Research at the URC*

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I. Introduction and Summary of Findings

ABOUT THIS SERIES

This report is part of a series of studies that began in 2007 documenting the impact of the URC institutions (Michigan State University, University of Michigan, and Wayne State University) on specific sectors of the Michigan economy. Past reports have highlighted the life sciences industry, advanced manufacturing, alternative energy, and other sectors. See Appendix B, “Summary of Past URC Sector Reports.”

This report highlights how URC universities are making a contribution to water-related research and innovation. The purposes of this report are:

- To define the scope and size of Michigan’s water industry.
- To describe the areas of expertise that Michigan’s URC universities have, and to quantify their contributions in advancing water-related research and innovation.

IMPORTANCE OF WATER TO MICHIGAN’S ECONOMY

Water is Michigan’s most precious natural resource. The Great Lakes that surround the state hold 18% of the world’s, and 90% of the nation’s, surface freshwater.¹ The state also has more than 11,000 inland lakes and over 3,100 miles of coastline.² But this just scratches the surface of water’s importance to the state:

- The Great Lakes are the most recognized aspect of the state’s geography, making Michigan stand out on even completely unlabeled maps.
- Water defines the quality of life enjoyed by many Michigan residents, providing recreation opportunities, natural beauty, and a sense of place.
- Water affects public health in the state’s communities, the ecosystems that support the state’s quality of life, and support major sectors of the state’s economy.

Water is also crucially important in the history—and future—of the state’s economy. Michigan’s entire economic history is bound to the Great Lakes:

- Manufacturing: the state’s development path in becoming a world leader in manufacturing depended in part on the abundance of water and the access to customers and raw materials provided by Great Lakes shipping. For example, the development of Ford Motor Company’s River Rouge Complex starting in 1917 depended on access the Rouge River, both for use of the water and transportation access.
- Agriculture and fisheries: the state’s abundant fisheries and unique climates for agricultural products along the lakeshore have helped make agriculture one of the largest industries in the state.
- Tourism; the recreation opportunities and natural beauty provided by the Great Lakes and inland lakes support Michigan’s tourism industry. One of the largest

1. National Oceanic and Atmospheric Administration, “About Our Great Lakes: Introduction,” <<http://www.glerl.noaa.gov/pr/ourlakes/intro.html>>, accessed May 2014.

2. State of Michigan, “Michigan State Facts,” <http://www.michigan.gov/mdot/0,4616,7-151-9622_11033_11151-67959--,00.html>, accessed May 2014.

industries in Michigan, tourism generated \$17.7 billion of direct spending, \$995 million in state taxes and 200,000 jobs in 2011.³

- Resource extraction: the navigable waters of the Great Lakes allowed Michigan's other natural resources such as minerals and timber to supply the region's economy—resources that made Michigan a fertile setting for the industrial development that has defined the last century.

Michigan's economic future is also deeply connected to meeting water-related challenges in the state, nationally, and globally using research and innovation.

Global Market for Water Technology and Innovation

There is a growing national and global market for water-related investment and innovation. For example:

- The demand for freshwater technology is estimated to be \$400 billion per year globally, including \$100 billion in the United States alone.⁴
- The U.S. EPA estimates that the nation's drinking water infrastructure systems will need more than \$384 billion in investment by 2030.⁵
- Developing areas of the world are in urgent need of water-related infrastructure and sanitation projects. Independent estimates place global demand for such projects in the trillions of dollars over the next few decades.⁶
- Water for agriculture accounts for approximately 70% of global freshwater withdrawals, creating significant pressure on water resources as populations grow.⁷

Such water-related issues set the stage for companies and research universities in Michigan to contribute by providing water-related research and innovation and talented workers. Michigan's research universities have a depth and breadth

3. Dr. Sarah Nicholls, "Michigan Tourism Strategic Plan," Michigan State University, December 2012.

4. John Austin, Elaine Dezenski, and Britany Affolter-Caine, "The Vital Connection: Reclaiming Great Lakes Economic Leadership in the Bi-National US-Canadian Region" Brookings Institution Metropolitan Policy Program, 2008

5. "EPA Survey Shows \$384 Billion Needed for Drinking Water Infrastructure by 2030," Environmental Protection Agency news release, June 4th, 2013.

6. The World Water Council estimates that 1.1 billion people lived without access to safe drinking water in 2002, and 2.6 billion lacked access to adequate sanitation. Source: "Water Crisis: Towards a way to improve the situation." World Water Council, <<http://www.worldwatercouncil.org/library/archives/water-crisis/>>, accessed May 2014. McKinsey & Company estimated in 2013 that the world could save more than \$1 trillion per year by investing in high-productivity infrastructure projects, including the investment of around \$10 trillion in water infrastructure projects. Source: "Infrastructure Productivity: How to Save \$1 Trillion a Year," McKinsey & Company, January 2013.

7. "Facts and Figures," UNESCO, <<http://www.unwater.org/water-cooperation-2013/water-cooperation/facts-and-figures/en/>>, accessed May 2014.

of expertise that will help industries and governments address the challenges and opportunities presented by water-related issues.

Recognition of Water's Importance

Given the historic and current importance of water in Michigan, it is not surprising that the state's leaders are focusing on water as a strategic economic asset for the state going forward. These efforts include:

- Business leaders: Business Leaders for Michigan's "Michigan Turnaround Plan" has highlighted the Natural Resources Economy sector, including agriculture and tourism, as an economic asset to the state, and has stressed "the development of technologies that maximize the production of scarce resources in a sustainable way" as part of its strategy.⁸ The Detroit Regional Chamber of Commerce joined with other Great Lakes region chambers (the Great Lakes Metro Chambers Coalition) to work together on a number of issues, including Great Lakes restoration. At the local government level, Macomb County's "Blue Economy Strategic Development Plan" released in 2012 and Oakland County's focus on water technologies are part of the overall effort to be competitive in emerging economic sectors.
- Multi-state and U.S.-Canada initiatives: the protection of the Great Lakes is the subject of extensive inter-state and international cooperation, including bodies such as the Great Lakes Commission of eight US states and two Canadian provinces; the International Joint Commission facilitating cooperation between the United States and Canada on protecting the trans-border environment, which includes the Great Lakes; the Council of Great Lakes Governors facilitating cooperation on environmentally responsible growth among US states and Canadian provinces bordering the Great Lakes; and agreements such as the Great Lakes Compact, a legal agreement signed by several US states governing how to manage the use of water in the Great Lakes Basin.
- State government initiatives: the Great Lakes are a center-piece to Michigan's "Pure Michigan" campaign. Michigan's state government coordinates policy "to protect, restore, and sustain" the lakes through the Office of the Great Lakes, which is part of the Department of Environmental Quality.⁹
- Think-tank research on the economic role of the Great Lakes: this includes work such as the Brookings Institution's Healthy Waters, Strong Economy report on the role the Great Lakes can play in transforming the region's economies.¹⁰

8. Business Leaders for Michigan, "Michigan Turnaround Plan", <<http://www.businessleadersformichigan.com/storage/documents/michigan-turnaround-plan/Final%202014%20MTP.pdf>>, accessed May 2014.

9. Statement on Office of the Great Lakes website. <https://www.michigan.gov/deq/0,4561,7-135-3306_29338---,00.html>, accessed April 25, 2014.

10. John C. Austin, "Great Lakes: Healthy Waters, Strong Economy," Brookings Institution, 2007, <www.brookings.edu/research/speeches/2007/09/05healthywaters-austin>.

OVERVIEW OF APPROACH

In defining the size and scope of Michigan's water industry, we identify the key sectors that directly implement water-related technology or are most vulnerable to water-related problems, including sectors such as water treatment, agriculture, manufacturing, and shipping. We have identified these water industry sectors by North American Industrial Classification System (NAICS) codes, and quantified the amount of Michigan employment in these sectors.

We highlight URC universities' contributions to research and innovation by identifying research projects on topics related to water quality and quantity, quantifying the amount of research awards over a five year period (from 2009-2013) on these topics, and describing several examples of cutting-edge research. We also identify degrees that URC graduates receive that allow them to contribute to water-related innovation in the private sector.

SUMMARY OF FINDINGS

1. URC universities advance water-related research and innovation on a vast array of topics.

URC universities have received more than \$299 million in awards for research and outreach advancing water innovation from 2009 to 2013. This represents a significant research focus, as it is of similar size to the \$303 million in awards for advanced automotive research at the URC from 2006-2011.¹¹

The research activity spans dozens of departments and hundreds of individual principal investigators at the universities. The URC's particular areas of expertise include:

- Great Lakes restoration, including a wide variety of research on wetlands, fisheries, invasive species, and ecosystems.
- Water monitoring and filtering technologies, identifying and dealing with chemical and biological agents.
- Agriculture-related research, ranging from dealing with drought to minimizing and monitoring runoff from fields.
- Policy research to identify methods for dealing with water-related problems at the local, state, and national government level.
- Climate and weather research on topics affecting the quantity and quality of water present for agricultural, storm water, and other systems.

See "URC Contributions to Water Research and Innovation" on page 13.

11. "The URC's Contributions to Automotive Innovation," Anderson Economic Group, May 2012.

2. The URC universities produce thousands of graduates each year prepared to work in water-related industries and in water research fields.

In 2012 the URC universities awarded more than 3,400 degrees in more than two dozen fields that prepare graduates to analyze water-related issues. These include undergraduate and graduate degrees in fields ranging from Biology and Chemistry to Civil Engineering and Natural Resource Management. See “URC Programs and Initiatives Supporting Water Innovation” on page 23.

3. Michigan Ranks 4th in the nation in employment in industries closely related to water quality and quantity. With more than 718,000 workers, these sectors account for one in five Michigan jobs.

In this report we identify industry sectors that embody the opportunity to provide solutions to the global market for water-related products and services, and to advance research on topics that present vulnerabilities to major employers in the state. These sectors include:

- Core Water Products and Services industries provide products and services such as wastewater treatment, construction and repair of infrastructure, and scientific, engineering, and technical services.
- Water-Enabled Industries rely directly on the quality and quantity of available water, and include industries such as agriculture, fishing, manufacturing, and transportation.¹²
- Downstream Industries such as tourism are affected by water issues, but rely on water-related technologies in other industries. Downstream industries are not included in our quantitative analysis of water-related employment, but are also critical to the Michigan economy.

Michigan ranks 4th in the nation for employment in the Core Water and Water-Enabled sectors as a percentage of total employment. The state has employment of more than 718,000 workers in the Core Water Products and Services and Water-Enabled Industries sectors identified in this report, and is one of two states to rank in the top ten in percentage employed in both sectors. See “Defining Michigan’s Water-Related Industries” on page 7.

12. See “Water-Enabled Industries” on page 9 for a more detailed description, including the illustrative example that commercial fishing is a “Water-Enabled Industry” but sportfishing operations are a “downstream” industry.

4. Water research and innovation represents an important strategic advantage for the State of Michigan, helping Michigan industries overcome challenges and seize opportunities in the global market for water technology.

The capacity for water-related research and innovation at Michigan's URC universities is a strategic asset for the state, for at least three reasons.

- Given Michigan's water resources and concentration of water-related industries (discussed in Finding 3 above), the state is among the best places to benefit from water-related research and innovation. Research on water-related issues gives entrepreneurs, existing companies, and early stage investors access to cutting edge research, thereby creating new markets and/or new companies.
- The global market for water-related expertise present opportunities for Michigan companies providing innovative water products and services (as discussed in "Importance of Water to Michigan's Economy" on page 1).
- The URC universities' expertise in key research areas, such as water monitoring and filtration and the relationship between water and agriculture (discussed in "The URC's Place in Water Research and Innovation" on page 25), will allow these universities to make a significant contribution to state, national, and global research efforts.

FORTHCOMING REPORTS ON THE BLUE ECONOMY

This report is the first in a collection of several works highlighting the value and importance of water to the economy of the state of Michigan. Other forthcoming reports include:

- The Michigan Water Strategy, as called for by Governor Rick Snyder in his special message on Energy and the Environment, will focus on the significant social, ecological, cultural and economic value of water to Michigan and highlight the central role and importance of water to the state and to the region.
- The Michigan Economic Center at Prima Civitas, in partnership with the Annis Water Resources Institute at Grand Valley State University is leading a "Growing Michigan's Blue Economy Initiative," designed to accelerate Michigan's activity in water placemaking, research and education, and new business development.

These efforts underline the importance of the Blue Economy to the future of Michigan.

ABOUT ANDERSON ECONOMIC GROUP

Anderson Economic Group is a research and consulting firm with expertise in public policy, economics, market research, and business valuation. AEG's Michigan clients include Automation Alley, Business Leaders for Michigan, the Small Business Association of Michigan, the National Federation of Independent Businesses, Oakland County, the City of Detroit, and numerous other private and public sector organizations. AEG has offices in East Lansing, Michigan and Chicago, Illinois. See "About the Author" on page C-1.

II. Defining Michigan's Water-Related Industries

In order to discuss the importance of water-related research and innovation to Michigan's economy, we must first define the industry. In this section we identify key portions of the state's economy that produce, implement, or are significantly affected by water-related research and innovation. We then quantify the employment in Michigan's water-related industries in 2012 and compare it to other states.

DEFINING INDUSTRY SECTORS DIRECTLY RELATED TO WATER

We used the North American Industry Classification System (NAICS), which is used by the Census Bureau to report industry data, to provide a repeatable basis for our industry definition that allows year-to-year and place-to-place comparisons within the United States.

Given the crucial role that water has played in the state, and the continued importance as an asset of the state, it is tempting to include a majority of the state's economy. Since this report is focused on the URC universities' contribution to the state's water industry, we have a somewhat narrower focus. We were guided by the following question:

What industries most directly benefit from advancements in water-related research and innovation affecting water quality and quantity?

We have identified two sectors of the economy that fit:

- 1. Core Water Products and Services (CWPS).** These industries contain companies that are water technology producers and service providers. This sector will include producers of water processing technology such as filters, water treatment facilities, and service-providing companies that assess and find solutions to problems related to water quality and quantity.
- 2. Water-Enabled Industries (WEI).** This will include the many parts of the economy that do not directly produce or implement advanced water technology solutions, but are nevertheless affected by changes in both the quality and quantity of available water, and to regulations governing the quality of water runoff or effluent.

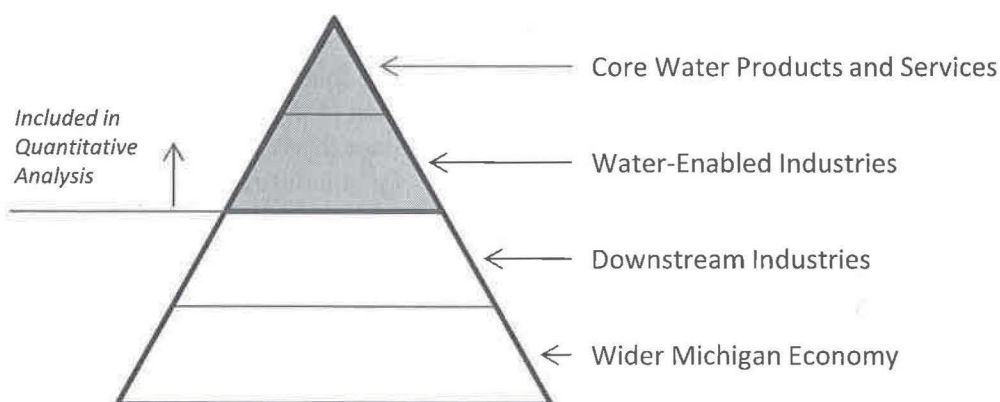
There are, of course, many other parts of the state's economy that depend crucially on water to operate, but are "downstream" of the businesses that directly use and apply water-related technologies. For example, many businesses and much investment in property in the state is related to tourism and recreation such as fishing and boating. These activities can be directly affected by water-related issues and research such as cleaning effluent from industry and municipal water treatment facilities, and aquatic invasive species affecting transportation, industrial water intakes, property values, and sport fishing opportunities. These "downstream industries" are both economically important and water-

related, but are not included in our quantitative analysis of employment in water-related industries because they are less likely to *directly implement* the advances in water-related research and technology discussed in this report.

The wider-economy of the state is connected to each of these sectors, as businesses in CWPS, WEI, and downstream industries purchases goods and services.

These sectors of the state economy can be thought of as layers of a pyramid of water-related industries in the state:

FIGURE 1. Economic Sectors Related to Water



CORE WATER PRODUCTS AND SERVICES

The Core Water Products and Services (CWPS) industry includes six industry sectors that develop, sell, or implement technology related to water quality and quantity. These sectors include businesses that will be called upon to help address challenges in water quality and quantity that affect quality of life, health, and the operation of businesses in the wider economy.

Among the CWPS sub-sectors are:

- 1 Manufacturing sub-sector that includes production of water filtration media.
- 2 Service sub-sectors focused on waste treatment and remediation services.
- 4 Service sub-sectors providing scientific, engineering, and technical services.

See Table A-1 on page A-5 for a complete list of the sub-sectors included in the CWPS sector.

WATER-ENABLED INDUSTRIES

Water-Enabled Industries (WEI) use water as a key input to their operations, or they have significant water discharge that must be processed properly, or both. Such industries are the most susceptible to changes in water quality in the environment, changes in the availability of water suitable for use, and changes in regulations affecting water discharges. As a result, they are the most likely to pose the questions that URC researchers seek to answer, and would be the most direct beneficiaries from breakthroughs. One example that illustrates the distinction: both commercial fishing and sportfishing tour operations might be thought of as “downstream” industries because they rely on other industries to play their part in maintaining clean water and healthy water ecosystems. However, commercial fishing is also directly regulated as part of broader ecosystem preservation and water quality efforts because its businesses operate on a larger scale and have can directly impact the sustainability of Great Lakes fisheries. Therefore, commercial fishing is included in the WEI sector, while sportfishing is not.

The WEI sector includes a more expansive portion of the economy, including 62 industry sub-sectors. Among the sub-sectors in the WEI sector are:

- 15 Agriculture, fishing, forestry, and other related sub-sectors.
- 4 Mining and other extractive sub-sectors.
- 56 Manufacturing-related sub-sectors, including the advanced manufacturing that is a core element of the auto industry.
- 2 Transportation-related sub-sectors, including Great Lakes shipping.

See Table A-1 on page A-5 for a complete list of the sub-sectors included in the WEI sector.

EMPLOYMENT IN MICHIGAN'S WATER INDUSTRIES

Michigan's water industry employment was more than 718,000 in 2012, including over 138,000 in Core Water Products and Services, and more than 581,000 in Water-Enabled Industries, as shown in Table 1 below and in Table A-2 in Appendix A.

TABLE 1. Total Water Industry Employment in Michigan and the U.S., 2012

	Michigan	U.S. Total
Core Water Products and Services	138,026	3,948,804
Water-Enabled Industries	581,028	13,942,918
Total Water Industry	718,704	17,851,911
As % of Total Employment	21.3%	16.1%
Reference: Total Employment	3,373,672	110,645,869

Source: U.S. Bureau of Labor Statistics, U.S. Agriculture
Analysis: Anderson Economic Group

The state's water industry sectors make up a larger proportion of Michigan's employment than for the nation as a whole. In fact, Michigan is 4th among U.S. states in its prevalence of CWPS and WEI employment and has water-related employment intensity almost 30% above the national average of 16.1%, as shown in Table 3.

TABLE 2. Top 10 States in Water Industry Employment Intensity, 2012

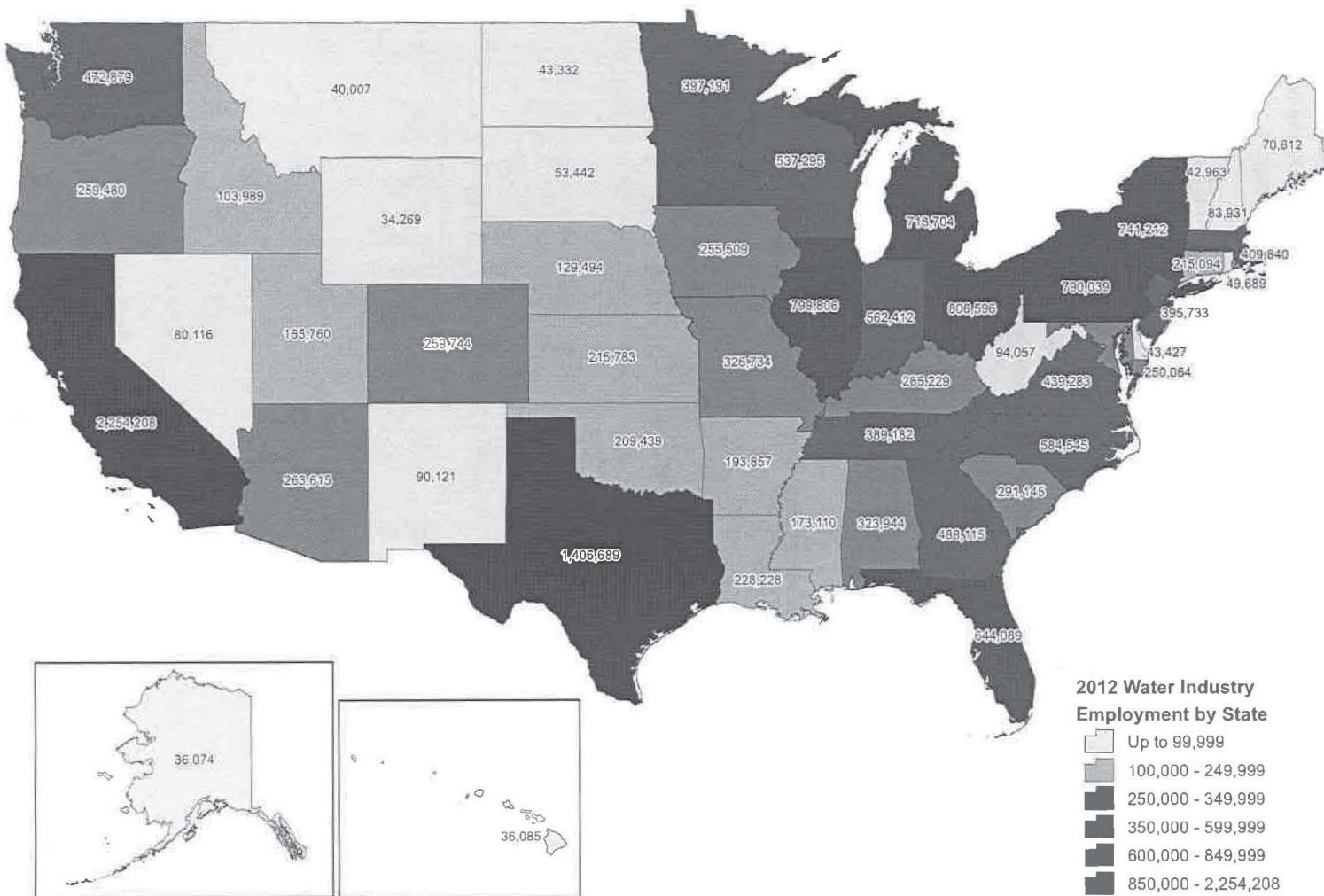
State	Total Water Related Employment	% of Total Employment			State Rank (% of Total Employment)		
		Core Water Products and Services	Water- Enabled Industries	Total Water Related	Core Water Products and Services	Water- Enabled Industries	Total Water Related
Indiana	562,412	2.1%	21.2%	23.3%	46	1	1
Wisconsin	537,295	2.1%	21.1%	23.2%	45	2	2
Alabama	323,944	3.4%	18.7%	22.1%	17	4	3
Michigan	718,704	4.1%	17.2%	21.3%	10	8	4
Idaho	103,989	4.2%	16.4%	20.6%	9	10	5
Iowa	255,509	1.6%	19.0%	20.6%	50	3	6
Arkansas	193,857	1.9%	18.7%	20.5%	47	6	7
Mississippi	173,110	1.7%	18.7%	20.4%	48	5	8
Kansas	215,783	3.1%	17.0%	20.1%	24	9	9
Washington	472,879	3.9%	15.9%	19.9%	12	14	10
<i>United States</i>	<i>17,851,918</i>	<i>3.6%</i>	<i>12.6%</i>	<i>16.1%</i>			

Source: U.S. Bureau of Labor Statistics, U.S. Agriculture
Analysis: Anderson Economic Group

The industry reaches throughout the nation, as shown in Map 1, "Water Industry Employment in US States, 2012," on page 11. While total employment is highest in high-population states (such as Texas and California), there is a concentration in Great Lakes states, with more than 3.8 million total workers in water-related industries in Michigan, Wisconsin, Minnesota, Illinois, Indiana, and Ohio. As with the Michigan-based employment in these sectors, these jobs are closely connected to challenges in the availability and management of high quality water, and to opportunities in offering solutions to these challenges.

Defining Michigan's Water-Related Industries

Map 1. Water Industry Employment in US States, 2012



Source: U.S. Bureau of Labor 2012 Quarterly Census of Employment and Wages (QCEW); 2011 QCEW; 2011 Census Bureau County Business Patterns (2011); U.S. Census of Agriculture (2007).
Analysis: Anderson Economic Group, LLC.

DOWNSTREAM INDUSTRIES AND THE BROADER MICHIGAN ECONOMY

Downstream industries are often directly affected by issues of water quality and quantity, and are economically important to the state. They are, nevertheless, not included in our quantitative analysis of employment in water-related industries because they are less likely to *directly implement* the advances in water-related research and technology discussed in this report.

Examples of such important industries include major contributors to the state's economy, including:

- Tourism; one of the largest industries in Michigan, generating \$17.7 billion of direct spending, \$995 million in state taxes and 200,000 jobs in 2011.¹³
- Fisheries; the Great Lakes fishery is valued at \$7 billion annually, and provides 75,000 direct jobs. Approximately 5 million people fish it annually.¹⁴
- Sport fishing; sport fishery contributes \$4 billion to the national economy.¹⁵

In addition to the “downstream” industries affected by water quality and quantity, water underpins quality of life in the state more broadly. Water quality affects both the health and the recreation opportunities for Michigan residents. These factors, in turn, are part of a broader set of factors that each resident and potential resident consider when evaluating where they would like to live, work, play, and visit.

13. Dr. Sarah Nicholls, “Michigan Tourism Strategic Plan,” Michigan State University, December 2012.

14. Great Lakes Fishery Commission, “Budget Summary, Fiscal Year 2012,” February 2011.

15. National Oceanic and Atmospheric Administration, “About Our Great Lakes: Economy,” <<http://www.glerl.noaa.gov/pr/ourlakes/economy.html>>, accessed May 2014.

III. URC Contributions to Water Research and Innovation

The URC universities contribute to innovation in water-related industries through their extensive research and development and outreach activities by researchers, and by educating workers that advance innovation in the private sector. This section describes the scope and size of the water-related research activity at the URC universities, describes several examples of such research, and identifies the programs, degrees, and centers at the schools that educate potential private sector water innovators.

SCOPE AND SCALE OF URC'S WATER- RELATED RESEARCH AND OUTREACH

URC universities produce research on a very wide variety of water-related topics. We examined data from the universities on research projects awarded funds from governments, private companies, foundations, and other sources, that were active in the years 2009 to 2013. We identified more than 2,100 awards for research, education, and outreach activities.¹⁶ The funds awarded for these projects totaled more than \$299 million, representing 2.6% of total URC university research awards, which totaled \$11.4 billion over the period. This represents a significant research focus, as it is of similar size to the \$303 million in awards for advanced automotive research at the URC from 2006-2011.¹⁷

The breadth of topics undertaken by URC researchers is remarkable, as shown in Figure 2 on page 14. The URC's particular areas of expertise (based on number of projects and funding levels) include many areas of importance at the regional and global levels. These include:

- Great lakes restoration, including a wide variety of research on wetlands, fisheries, invasive species, and ecosystems.
- Water monitoring and filtering technologies, identifying and dealing with chemical and biological agents.
- Agriculture-related research, ranging from dealing with drought to minimizing and monitoring runoff from fields.
- Policy research to identify methods for dealing with water-related problems at the local, state, and national government level.
- Climate and weather research on topics affecting the quantity of water present for agricultural, storm water, and other systems.

Awards for research and outreach span across the universities and include many departments, ranging from Natural Resources and Environment, to Chemistry, to Agricultural Extension offices, to Biology. In total, 341 different researchers were principal investigators on water-related projects at URC universities.

16. Education and outreach includes, for example, consulting for a State of Michigan Department, educating the public, and engaging students and scholars in science related to the Great Lakes.

17. "The URC's Contributions to Automotive Innovation," Anderson Economic Group, 2012.

FIGURE 2. Water Research at Michigan's Research Universities

Nearly **\$300 million** in research & outreach, including:

1. Non-Point Source Pollution
2. Drought-Resistant Plants
3. Water Policy Research & Planning
4. Waterborne Illness & Disease
5. Sustainable Land & Water Management
6. Point Source Pollution
7. Wastewater & Sewer Infrastructure & Treatment
8. Sustainable Water Use by Industry
9. Climate Modeling
10. Aquatic Invasive Species
11. Great Lakes Restoration & Protection
12. Sustainable Water Use by Agriculture
13. Beach Quality
14. Storm Water Management
15. Drinking Water Safety
16. Groundwater Monitoring
17. Great Lakes Water Transportation

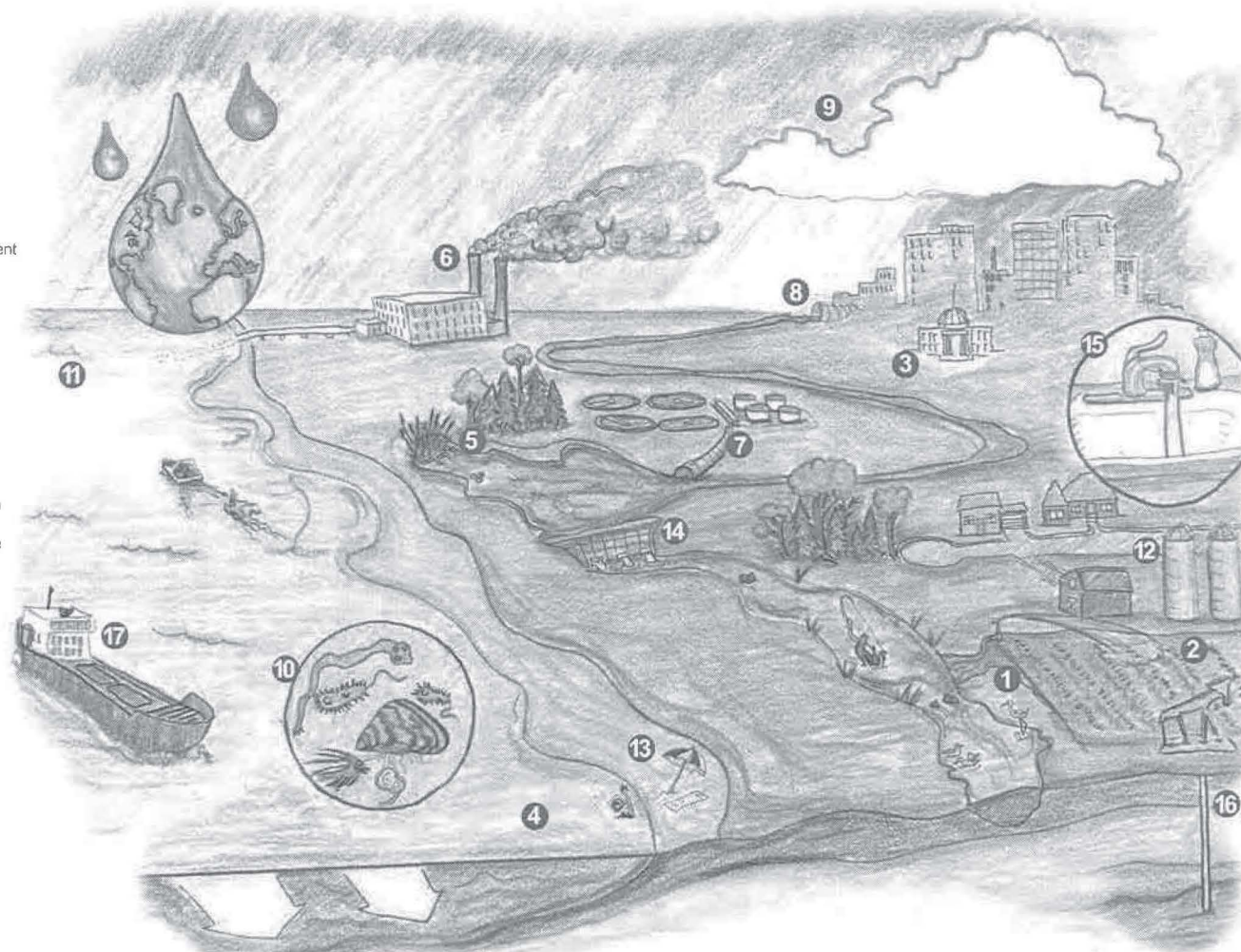


Illustration by Lambert, Edwards & Associates for University Research Corridor

HIGHLIGHTS OF SPECIFIC RESEARCH INITIATIVES AND CENTERS

Each of the URC universities contributes water-related research and innovation on multiple scales, including specific projects by individual researchers, participation in larger initiatives across the state and region, and the establishment of specialized research teams and centers that can apply multidisciplinary expertise to water-related questions. The examples in this section show how the capacity for water-related research is being applied at URC universities.

Leading in Water Safety Research and Service

Dr. Joan Rose, Co-Director for both Center for Advancing Microbial Risk Assessment (CAMRA) and its Center for Water Sciences (CWS), is developing new genetic analytics to study waterborne health threats. Dr. Rose is an international authority on water microbiology, water quality and public health.

Water quality studies today tend to focus on the indicators of pathogens, but Dr. Rose's work targets actual threat agents such as viruses, mapping water quality and health risks in Michigan, the Great Lakes and throughout the world.

Dr. Rose is a pioneer in the emerging science of viral metagenomics—sequencing virus DNA in water sources, discharges and shipping ballast using next-generation high-throughput technology. Such technology promises to significantly improve methods to protect water and food supplies, and Dr. Rose is applying the technology to assess the safety of fresh produce.

Her global activity includes investigation of waterborne disease outbreaks and the study of water supplies, treatment, and reclamation. Her applied research interests include study of microbial pathogens in recreational waters and climatic factors impacting water quality.

University Collaboration on Michigan Sea Grant

Surrounded by four of the five Great Lakes, Michigan is at the epicenter of the impact of responsible water management and ecosystem stewardship. Leading the initiative to protect the state's and region's greatest natural asset is Michigan Sea Grant, part of the National Sea Grant College Program and a cooperative program of the University of Michigan and Michigan State University.

Michigan Sea Grant is charged with identifying environmental challenges, developing solutions, and supporting research to protect and restore the bodies of water so critical to the health and culture of its residents and economic vitality of its industries.

Current research projects include expansion of aquaculture into a sustainable seafood industry (MSU), spawning habitat construction in the St. Clair and Detroit rivers (U-M), and assessment of lingering impacts of copper mining in the Torch Lake area of the Keweenaw Peninsula (Michigan Tech). Most recently, Wayne State University researchers won a Sea Grant award to support

study of stable open channel design and another to study the muck ecosystem in Saginaw Bay.

Following an integrated assessment approach, research teams create tools and build partnerships that help citizens better address challenging coastal issues - such as fish contaminants, stormwater runoff, or wind energy conflicts. Sea Grant specialists apply research to real-life issues through their work with natural resource managers, industries and stakeholder groups to promote science-based decision-making.

As part of the University of Michigan's School of Natural Resources and Environment and Michigan State University's Extension Greening Institute, both institutions provide matching funds to support research, education, and outreach programs, as well as issue grants. Michigan Sea Grant has supported at least 150 peer-reviewed publications (1990-2008), awarded 41 fellowships for graduate students since 1982, and funded \$34 million in research since 1969.

Today researchers across the URC have secured funding to support their water research from Michigan Sea Grant, as have their colleagues at other universities in the state leading water research efforts, including Grand Valley State University's Annis Water Resources Institute, and Michigan Technological University's Center for Water and Society and Great Lakes Research Center. Of the 33 grants made by Michigan Sea Grant, two-thirds were in applied research.

Understanding Chemical Movement and Processes in the Oceans

Dr. Mark Baskaran, Ph.D., Professor of Geology in the College of Liberal Arts and Sciences at Wayne State University, is following the pathways and cycling of two trace elements in the Pacific Ocean from Peru to Tahiti. His research is working to advance understanding of the movement of chemical compounds through the world's oceans.

His research examines levels of polonium (Po) and lead (Pb) isotopes in water samples from Peru to Tahiti, investigating how much carbon is exported from the upper 100 meters of ocean water to deeper waters, and how hydrothermal waters released from the bottom of the ocean affect the removal of polonium and lead. While some of the key trace elements and isotopes (TEIs) sampled have been induced by humans, others are the result of radioactive decay of naturally occurring uranium.

Dr. Baskaran's work is part of the National Science Foundation's GEOTRACES project. GEOTRACES brings together scientists from 30 countries to study how environmental changes - especially those resulting from increased industrial and commercial activity in the last 200 years - have affected distribution of key TEIs and chemical processes taking place in the ocean.

Based on his previous research with polonium and lead isotopes, Dr. Baskaran believes samples from the selected area will prove useful in tracking these changes. His team's data will be added to that of researchers studying other TEIs to provide the best possible assessment of what has occurred and when, especially within the past century.

Building Capacity for Interdisciplinary Water-Related Research

The University of Michigan Water Center, part of the Graham Sustainability Institute, is a multidisciplinary research group that sits across multiple schools at the university and works with researchers from universities across the Great Lakes region.

Focused on “translational knowledge”, research applied to real-world problems, the center has two main goals. First, with funds from a grant by the Erb Family Foundation, the Center awards grants to researchers working on Great Lakes restoration issues with practitioners such as state government resource managers. Second, the Center is focused on building and maintaining capacity for solving problems using researchers from multiple schools, departments, and disciplines. This includes working with the Graham Sustainability Institute's Integrated Assessment Center to address complex issues such as Great Lakes water levels, and using research grants to seed cross disciplinary efforts to build research programs, fostering ongoing collaboration.

To support Great Lakes restoration and protection efforts, the U-M Water Center awarded eight research grants, totaling nearly \$2.9 million, to multidisciplinary teams led by researchers at universities in Michigan, Indiana, Wisconsin, Minnesota and New York. The projects support efforts to restore native fish migrations across the Great Lakes Basin, improve lake water quality, map Great Lakes environmental stressors, and strategies for restoring aquatic ecosystems including wetlands and river watersheds. One of the eight projects funded is focused on guiding ecological restoration of Saginaw Bay: “Saginaw Bay optimization tool: linking management actions to multiple ecological benefits via integrated modeling”. David Karpovich of Saginaw Valley State University is the principal investigator of the project aimed at reducing nutrient runoff from agricultural land into Michigan's Saginaw Bay, including efforts to encourage voluntary implementation of best management practices by farmers. This Water Center-funded study will include a retrospective assessment of GLRI and MAEAP projects within the Kawkawlin and Pigeon/Pinnebog river sub-watersheds, as well as development of priorities to guide future conservation efforts

Monitoring Environments and Improving Farm Efficiency from the Sky and Under Water

Dr. Bruno Basso, Associate Professor of Geological Sciences at Michigan State University, is pursuing improved agricultural efficiency through a combination of computer simulation and new remote sensing technology. Utilizing technol-

ogy including aerial drones, Dr. Basso's team models crop growth to precisely apply water and fertilizer depending on current conditions. This system can also identify strategies for adapting to long-term drought and extreme weather anticipated to result from climate change.

Threats to bodies of water such as algae blooms, which rob the ecosystem of oxygen, often aren't apparent until the damage is done. Dr. Xiaobo Tan, Associate Professor of Electrical and Computer Engineering at Michigan State University, is developing fish-like robots that will provide more frequent and thorough monitoring of water sources. Initially building perch-sized underwater robots carrying water quality sensors and transmitting gear, he is now building larger craft, employing buoyancy "gliding" technology together with fin locomotion to enable the autonomous craft to operate for longer periods, over greater distances.

Research on Ballast Water Treatment and Verification

The increasing number of aquatic invasive species in the Great Lakes poses a major threat to the health and vitality of the lakes themselves and industries relying on them. Invasive species damage the food chain, beaches and infrastructure, costing industries, businesses and citizens in the Great Lakes region millions of dollars each year. Most of these invasive species arrived in the ballast water tanks of ships originating travel from the Atlantic Ocean.

These ships carry millions of gallons of water from coastal port areas in their ballast tanks to maintain stability in transit. At each port of call, the ballast water is discharged, along with the live organisms that were transported. New regulations will soon require ships to treat ballast water outside of the Great Lakes to eliminate all live organisms before the ballast water is discharged.

Current monitoring and treatment methods take days to administer and are difficult to enforce in the time-sensitive transportation industry. Dr. Jeffrey Ram, Ph.D., Professor of Physiology in the School of Medicine at Wayne State University, is leading a multidisciplinary team developing an automated, shipboard, rapid-testing system that will be able to report "in real time" the presence of live organisms in ballast water, after it has been treated.

To create this new system, the researchers are adapting chemistry used to detect live salt water organisms in fresh water samples, applying automation technology. Dr. Amar Basu, Ph.D., Assistant Professor of Electrical and Computer Engineering in the College of Engineering at Wayne State University, is collaborating with Dr. Ram on the project. WSU has a provisional patent for the automation technology based on a vital staining process in which a colorless chemical interacts with enzymes, producing bright fluorescence in live organisms. This new technology provides results in minutes, leading to a paradigm shift in the area of ballast water management.

Research on Quantifying the Water-Related Financial Risk in Stock Ownership

Dr. Peter Adriaens, Professor of Civil and Environmental Engineering and Professor of Entrepreneurship and Strategy at the University of Michigan, is working on water risk analysis techniques at the university and in the private sector. He is pursuing research identifying the specific water-related risk associated with owning the stock of publicly-traded companies in water-sensitive sectors, including utilities, mining, and steel production.

Identifying financial risk associated with ownership of specific companies based on their public disclosures of water management policies and financial data could influence both public and private efforts to manage water risks globally. In particular, having more public information on water-related risks to global firms' financial health could lead fund managers and other investors to influence companies and governments in key areas to provide better data, better policy, and better practices on issues related to water quality and quantity.

Exploring Coupled Human and Natural Systems Globally

Dr. Jianguo "Jack" Liu, Director of the Center for Systems Integration and Sustainability at Michigan State University, and doctoral student Wu Yang examined at China's water supply and quality problems, lessons learned from these problems and management strategies that hold solutions for China and the rest of the world.

China's crisis is daunting, though not unique. Two-thirds of China's cities have water shortages, more than 40 percent of its rivers are severely polluted, 80 percent of its lakes suffer from eutrophication (an overabundance of nutrients) and about 300 million rural residents lack access to safe drinking water. Recent floods in Beijing overwhelmed drainage systems, resulting in scores of deaths.

China has dedicated enormous resources, nearly \$635 billion, which represents a quadrupling of investment in the next decade, mainly for engineering measures. In a recent journal article, the Dr. Liu outlined China's water crisis and recent leapfrog investment in water conservancy, suggesting to address complex human-nature interactions for long-term water supply and quality solutions.

Advancing Ecological Restoration of the Great Lakes

The invasion of zebra mussels and quagga mussels have caused dramatic ecological effects on the Great Lakes ecosystems, including changes in fish abundance, local extinction of native mussels, and profound changes in benthic invertebrates (important for decomposition of organic matter) and more.

With the help of a two-year, \$250,000 grant from the United States Geological Survey (USGS), scientists led by Donna Kashian, Ph.D., Assistant Professor of Biological Sciences at Wayne State University, are heading up research identifying a chemical found in algae that may inhibit spawning in the invasive zebra and quagga mussels. The research aims to identify chemical cues released by algae, and determine ways to develop an ecological-scale control strategy to disrupt reproduction.

Their preliminary research has demonstrated that algae produce chemicals that stimulate or inhibit zebra and quagga mussels spawning. Rather than focusing on toxic, non-specific chemicals used in water treatment facilities and power stations to kill mussels, Dr. Kashian's team hopes to regulate mussel reproduction and reduce their populations at ecosystem scales through natural, potential species specific chemical cues released by algae.

Dow Sustainability Fellows Program - Preparing Future Sustainability Leaders

Made possible by the Dow Chemical Company, the Dow Sustainability Fellows Program at the University of Michigan supports full-time graduate students and postdoctoral scholars at the university committed to finding interdisciplinary, actionable, and meaningful sustainability solutions on local-to-global scales. The program aspires to prepare future sustainability leaders to make a positive difference in organizations worldwide.

The diverse array of fellows brings together many interests related to water, energy, health, consumption, green chemistry, transportation, built environment, climate change, biodiversity, human behavior, environmental law, and public policy, among others. The program comprises masters/professional degree, doctoral, and postdoctoral fellows, who engage with one another within and across cohorts, thrive on collaboration, learn to employ interdisciplinary thinking, experience diverse stakeholder perspectives, and implement projects with significant potential for impact on local-to-global scales.

To foster high-impact sustainability collaborations across the University of Michigan, the Dow Sustainability Fellows program includes a competition for applied sustainability projects that cut across disciplines and academic levels, and involve U-M students at all academic levels. This is the Distinguished Awards for Interdisciplinary Sustainability.

Turning Environmental Liabilities into Assets

Dr. Steve Safferman, Associate Professor of Biosystems and Agricultural Engineering at Michigan State University, focuses his research on effectively recycling wastewater and farm waste in an effort to protect the environment.

A leader in the study of anaerobic digestion of manure and other waste to generate energy, Dr. Safferman and his team are also researching methods to remove phosphorous from wastewater. Often found in wastewater, agricultural and residential runoff, phosphorus finds its way into lakes and streams, promoting growth of oxygen-depleting algae and plant life, choking other life forms. Certain forms of phosphorus can also be toxic.

Dr. Safferman has partnered with a private sector company, testing a new filter to reclaim phosphorus which can be reused as fertilizer. Another byproduct of phosphorus removal, clean water, also becomes an asset as opposed to an environmental liability.

The Huron to Erie Alliance for Research and Training (HEART) Freshwater Center

The HEART Freshwater Center is a collaborative effort between Wayne State University, Macomb Community College, Huron-Clinton Metropark Authority and Macomb County focused on developing field facilities at Lake St. Clair Metropark and Belle Isle along the Huron-to-Erie corridor, a body of water shared by the United States and Canada connecting the upper and lower Great Lakes.

The Wayne State University engagement includes an interdisciplinary team of researchers led by Dr. Carol Miller, Professor of Civil and Environmental Engineering in the College of Engineering. For Dr. Miller, the opportunity to conduct research at a freshwater center shared by key regional partners provides an advantage in maximizing shared resources and expertise in a real-world urban laboratory, unique in its geography at a critical intersection for Great Lakes water.

The goal of HEART is to design activities and facilities to attract scientists, educators and students from national and international institutions to conduct innovative research focusing on urban systems and the environment. Particular areas of interest include storm water runoff (green infrastructure), beach health, wetland ecology and marsh restoration, invasive species, algae and nuisance vegetation, fisheries-related research, and emerging contaminants in urban waterways. HEART's training and research activities will impact more than 4 million people along the waterway, who will receive recreational, economical and ecological benefits from the project. In addition, HEART will inform watershed managers and policy makers from a variety of urban freshwater environments.

Interdisciplinary Research on Algae Blooms in Lake Erie

The 2011 Lake Erie algae bloom, composed almost entirely of toxic blue-green *Microcystis* algae, was the largest in the lake's recorded history. Concentrations of microcystin, a liver toxin produced by the algae, peaked at about 224 times

World Health Organization guidelines. An algae bloom is a rapid buildup of algae in a body of water, and harmful blooms are those that damage other organisms, including humans, through the production of toxins or by other means. Algae blooms can foul harbors, clog boat motors, reduce fish populations and sometimes lead to the formation of low-oxygen “dead zones” where most aquatic organisms cannot survive.

To analyze the likelihood of future massive blooms in Lake Erie, an interdisciplinary team of 18 researchers from the University of Michigan and 11 researchers from eight other universities explored factors that may have contributed to the event, such as land use, agricultural practices, precipitation, temperature, wind, lake circulation and surface runoff. The researchers found that a series of intense spring rainstorms and runoff events resulted in record-breaking levels of phosphorus, a nutrient in crop fertilizers that also fuels rampant algae growth, washing into western Lake Erie. This set the stage for an algae bloom more than three times larger than any previously observed Lake Erie algae bloom, including blooms occurring in the 1960s and 1970s, when the lake was famously declared dead.

Other contributing factors include the recent widespread adoption of no-till farming and other agricultural practices that have increased the availability of a type of phosphorus that promotes algae growth. These agricultural practices, coupled with intense spring rainstorms that are expected to be more common with climate change, led the research team to conclude that Lake Erie's monumental 2011 algae bloom is more likely to occur again in the future.

Measuring Metals in Stormwater Runoff and Wetlands

High concentrations of toxic metals in aquatic systems are a known threat to the environment, especially in urban areas where rainwater runoff carries large amounts of pollutants. Wayne State University researchers are working to better measure these pollutants as a step toward designing efficient “green” systems for removing heavy metals like copper, cadmium and lead from stormwater.

Although urban areas comprise just 3 percent of the United States' land mass, stormwater from those areas is the main source of pollutants in 13 percent of all rivers, 18 percent of all lakes and 32 percent of all estuaries. Passive treatments to mitigate that impact include rain gardens and bioswales. Such treatments conserve energy, resources and finances, but researchers say their ability to retain heavy metals is critically undefined.

Shawn McElmurry, Ph.D., Assistant Professor of Civil and Environmental Engineering at Wayne State University, and Parastoo Hashemi, Ph.D., Assistant Professor of Chemistry at Wayne State University, are developing a technology that can rapidly quantify concentrations of heavy metal in environmental systems. Their electrochemical technique utilizes a small carbon fiber a few

micrometers in diameter to detect metals quickly, with approximately 100 measurements a second.

Known as fast-scan cyclic voltammetry, it uses an electrical current to attract metals to the fiber surface. When metals touch the electrode, they alter the current in unique ways, making it possible to identify different types of metals.

While traditional voltammetry is much slower, taking up to five minutes, and is more prone to fouling, this new technique is faster and more versatile, allowing for quantification of metals within milliseconds in environmental systems. Ultimately McElmurry and Hashemi's instrument will be used to measure metals in stormwater runoff and wetlands to help reduce the amount of pollution entering the Great Lakes.

URC PROGRAMS AND INITIATIVES SUPPORTING WATER INNOVATION

Each of the URC universities supports research and innovation in water technology with several programs, centers, and degree programs. These activities support innovation at the universities, in government, and in private companies.

Table 3 below lists 30 departments, centers, programs, and initiatives at URC universities that support water research and innovation. These include individual departments, interdisciplinary efforts, and multi-institutional initiatives fostering collaboration among universities.

TABLE 3. Current Water-Centered Departments, Centers, Programs, and Initiatives at URC Universities

University	Department, Center, Program, or Initiative	School or College
MSU	Global Water Initiative	Institutional
MSU	Center for Water Sciences	Institutional
MSU	Department of Civil and Environmental Engineering	College of Engineering
MSU	Hydrology & Water Resources	College of Engineering
MSU	Department of Geological Sciences – Environment	College of Natural Science
MSU	Environmental and Science Program	Institutional, Graduate Education
MSU	Department of Fisheries & Wildlife – Landscape Limnology	College of Agriculture and Natural Resources
MSU	Institute of Water Research	Institutional, MSU Extension
MSU	Center for Systems Integration and Sustainability	Institutional
MSU/U-M	Coast Watch Sea Grant (NOAA & UM)	Multi-Institutional (U-M) - College of Agriculture and Natural Resources, MSU Extension
MSU	Land Policy Institute	Institutional, School of Planning, Design and Construction
MSU	Kellogg Biological Station: Long Term Ecological Station	Institutional
MSU	Center for Advancing Microbial Risk Assessment	Multi-Institutional (Drexel)
MSU	Aqua Clara Collaboration	Bioeconomy Institute
U-M	Water Center	Institutional, Graham Sustainability Institute
U-M	Frederick A. & Barbara M. Erb Institute	Ross School of Business, School of Natural Resources and Environment
U-M/MSU	Michigan Sea Grant	Multi-Institutional (MSU), School of Natural Resources and Environment
U-M	UM Biological Station – Pellston	School of Literature, Sciences, and the Arts
U-M	Cooperative Institute for Limnology & Ecosystems Research	School of Natural Resources and Environment
U-M	Institute for Fisheries Research	School of Natural Resources and Environment
U-M	Civil and Environmental Engineering	College of Engineering
U-M	Environmental Health Sciences	School of Public Health
WSU	Institute of Environmental Health Sciences	Institutional
WSU	Urban Watershed Environmental Research Group	Institutional, College of Engineering
WSU	College of Engineering Civil and Environmental Engineering	College of Engineering
WSU	RISEUP: Research Internships for a Sustainable Environment with Undergraduate Participation	School of Medicine
WSU	Huron to Erie Alliance for Research & Training	College of Engineering
WSU	Sustainable Water Delivery	College of Engineering
WSU	Lumigen Instrumentation Center	College of Engineering - Chemistry

Source: University Research Corridor

We have also identified 26 Bachelor's, 28 Master's, and 14 Doctoral programs that equips graduates interested in the area to work on water-related issues. These degrees include biological and physical sciences, as well as degrees focused on agriculture and geology. See Appendix A for a list of the degrees included.

TABLE 4. Degrees Awarded in Water-Related Fields, 2012

	Michigan State University	University of Michigan	Wayne State University	Total
Bachelor's	1,121	754	273	2,148
Master's	164	563	171	898
Doctorate	102	217	46	365
Total	1,387	1,534	490	3,411

Source: IPEDS

Analysis: Anderson Economic Group, LLC

INNOVATION AND TECHNOLOGY TRANSFER

Universities play a direct role in using research to drive innovation at the earlier stages, when basic and applied research are needed. Each URC university's technology transfer and commercialization office help this research make an impact in the private sector by shepherding new technologies through the commercialization process, including the patent, licensing, and start-up processes. Since 2002, the URC universities have assisted with the start-up of 163 companies. A number of these start-ups fit within the Core Water Products and Services and Water-Enabled Industries defined in this report. Currently there are dozens of water-related technologies available for licensure. These technologies are focused in the following areas:

- Monitoring, filtering, and removing hazardous materials (e.g., chemicals like arsenic, bacteria like cryptosporidium, and organic compounds like algae and oil) from water used for drinking, farming, food processing and manufacturing.
- Development of methods and technologies used in the manufacturing processes of advanced materials, products, and pharmaceutical devices and therapies.
- Utilization in fuel production—refining of petroleum, manufacture of fuel cells and hydrogen gas, and development of biofuels, including ethanol and algae.
- Design of marine vessels and navigation technologies that improve efficiencies and reduce negative environmental impacts.
- Cultivation of drought-resistant and drought-tolerant plants.

THE URC'S PLACE IN WATER RESEARCH AND INNOVATION

There is a broad effort underway in Michigan and across the Great Lakes region to address issues of water quality and quantity at the community, state, and multi-state levels. These include multi-state and provincial cooperation through the Council of Great Lakes Governors, the Great Lakes Restoration Initiative, and countless collaborations among communities and universities in the region. It also includes university-level collaboration ranging from individual research

projects across universities to formal collaborations such as the Transborder Research University Network, in which eight Canadian and eight U.S. research universities (including all three URC universities) collaborate on research, pursue joint applications for funding, share university resources and facilities, and engage in the exchange of ideas through conferences, workshops, and student and faculty exchanges.

The knowledge and expertise generated through these efforts is helping, and will continue to help, solve problems and capture opportunities throughout the region, and provide a basis for leadership in addressing water-related issues nationally and globally. The URC universities often are working in coordination with colleagues from other Michigan universities, many of whom are leading valuable research centers in strategic locations around the state and conducting research that is contributing to greater understanding of water sustainability and restoration. URC university researchers are also connected with researchers across the Great Lakes Region, the nation, and the world through unique and targeted collaborations.

The URC-based research described in this section represents a significant contribution to this overall effort by universities, governments, private associations, and other stakeholders. URC contributions to multidisciplinary research in water monitoring and filtration, agriculture's relationship to water issues, and other areas are recognized as important contributions to the larger effort.

Appendix A. Data and Methodology

INDUSTRY SECTORS DIRECTLY RELATED TO WATER

We set out to identify a list of 4-digit NAICS industries that make up the most intensively water-related sectors of the economy. As noted in “Defining Industry Sectors Directly Related to Water” on page 7, we began with the question: “What industries most directly benefit from advancements in water-related research and innovation affecting water quality and quantity?”

Industries that directly provide water-related services such as consulting and analysis, directly provide wastewater and other water management services, or which manufacture equipment such as filtration media, were marked as CWPS industries. Industries noted for being users of large amounts of high quality water, or which are critical industries for controlling discharge or runoff into surface water systems were marked as WEI industries.

The industries selected were reviewed by university water researchers and industry experts to ensure each represented a reasonable inclusion in the overall picture of water-intensive industries.

See Table A-1 below for a list of included industries.

RESEARCH AWARD METHODOLOGY

To quantify the amount of research that is on “water-related” topics, we reviewed research awards data from the URC universities (including all University of Michigan campuses) for projects active from 2009-2013 at each URC university in collaboration with URC staff.

The search method was adapted from the model created by Don Scavia and his team at the University of Michigan’s Graham Sustainability Institute, which is conducted on awards data each year. Adaptations for this report included the addition of key words identified in known water research at all three URC institutions, such as the term “ballast” referring to the water contained in the ballasts of ships that is a source for the transport of aquatic invasive species. Terms referring to climate and land policy were eliminated in order to focus on water specific research. Included was research on quality and quantity of water resources (e.g., lakes, streams, groundwater, rivers, wells, precipitation, public utilities) and monitoring and cleaning technologies (e.g., filters, modeling, wastewater and sewer management processes and technologies, non-point source pollution: urban and agricultural runoff management), health and vitality of water bodies (e.g., oceans, glaciers, Great Lakes, estuaries, wetlands, peat lands), indicators of ecosystem health (e.g., fisheries, pelagic birds, invasive aquatic species, marine mammals), and use of water research, manufacturing, and other processes.

In addition to a key word search, a review of all awards by identified water researchers across the URC was conducted to identify additional water-related

research not flagged in key word search. Finally, awards were reviewed by known water-focused funders. Two separate searches were conducted and reconciled through two rounds of comparisons of identified awards. The result is an estimate of water-related research across the URC over the past five years.

Our estimate for the amount of awards active during the period 2009-2013 includes projects that started before 2009 and others that were active after 2013. We allocated the amount of awards that “count” during this period as follows:

- First, we divided the total award amount by the estimated number of days between the start and end dates of the award listed in the data.
- We then estimated the number of days in each year from 2009-2013 that were between the project’s start and end dates.
- We then multiplied the average daily amount of the award by the number of days during the target years for which the project was active.

This methodology is limited in that it does not account for any systematic variation in spending of research award amounts, such as a tendency to spend down awards more heavily toward the beginning or end of the projects.

DEGREES IN WATER-RELATED FIELDS

We identified the following water-related degrees from the 2013 data in IPEDS for each school (including all University of Michigan campuses).

Bachelor’s Degrees:

- Agricultural Public Services
- Biochemistry Biophysics and Molecular Biology
- Biological and Biomedical Sciences Other
- Biological and Physical Sciences
- Biology General
- Biomedical/Medical Engineering
- Botany/Plant Biology
- Cell/Cellular Biology and Anatomical Sciences
- Chemical Engineering
- Chemistry
- City/Urban Community and Regional Planning
- Civil Engineering
- Ecology Evolution Systematics and Population Biology
- Food Science and Technology
- Forestry
- Geography and Cartography
- Geological and Earth Sciences/Geosciences

-
- Geological/Geophysical Engineering
 - Landscape Architecture
 - Natural Resources Conservation and Research
 - Natural Resources Management and Policy
 - Naval Architecture and Marine Engineering
 - Plant Sciences
 - Wildlife and Wildlands Science and Management
 - Zoology/Animal Biology

Master's Degrees

- Agricultural Engineering
- Atmospheric Sciences and Meteorology
- Biochemistry Biophysics and Molecular Biology
- Biological and Biomedical Sciences Other
- Biology General
- Biomathematics Bioinformatics and Computational Biology
- Biomedical/Medical Engineering
- Biotechnology
- Botany/Plant Biology
- Cell/Cellular Biology and Anatomical Sciences
- Chemical Engineering
- Chemistry
- City/Urban Community and Regional Planning
- Civil Engineering
- Ecology Evolution Systematics and Population Biology
- Environmental Design
- Environmental/Environmental Health Engineering
- Food Science and Technology
- Forestry
- Geography and Cartography
- Geological and Earth Sciences/Geosciences
- Landscape Architecture
- Natural Resources Conservation and Research
- Natural Resources Management and Policy
- Naval Architecture and Marine Engineering
- Plant Sciences
- Wildlife and Wildlands Science and Management
- Zoology/Animal Biology

Doctoral Degrees

- Agricultural Engineering
- Atmospheric Sciences and Meteorology
- Biochemistry Biophysics and Molecular Biology
- Biology General
- Biomathematics Bioinformatics and Computational Biology
- Biomedical/Medical Engineering
- Botany/Plant Biology
- Cell/Cellular Biology and Anatomical Sciences
- Chemical Engineering
- Chemistry
- City/Urban Community and Regional Planning
- Civil Engineering
- Ecology Evolution Systematics and Population Biology
- Environmental/Environmental Health Engineering
- Food Science and Technology
- Forestry
- Geography and Cartography
- Geological and Earth Sciences/Geosciences
- Natural Resources Conservation and Research
- Natural Resources Management and Policy
- Naval Architecture and Marine Engineering
- Plant Sciences
- Wildlife and Wildlands Science and Management
- Zoology/Animal Biology

Table A-1. Water Dependent Private Sector Employment in Michigan and the United States, 2012

NAICS	Industry Description	Michigan	United States
Core Water Products and Services			
3271	Clay Product and Refractory Manufacturing (Includes filtering media)	350	39,811
5413	Architectural, Engineering, and Related Services	68,257	1,318,177
5416	Management, Scientific, and Technical Consulting Services	25,661	1,127,739
5417	Scientific Research and Development Services	20,239	634,404
5419	Other Professional, Scientific, and Technical Services	16,995	608,251
5622	Waste Treatment and Disposal	3,617	95,328
5629	Remediation and Other Waste Management Services	2,907	125,094
Total		138,026	3,948,804
Water-Enabled Industries			
1111	Oilseed and Grain Farming	1,105	48,466
1112	Vegetable and Melon Farming	2,622	97,091
1113	Fruit and Tree Nut Farming	4,012	190,379
1114	Greenhouse, Nursery, and Floriculture Production	6,333	144,080
1119	Other Crop Farming	790	63,059
1121	Cattle Ranching and Farming	5,048	141,531
1122	Hog and Pig Farming	486	29,502
1123	Poultry and Egg Production	1,117	39,442
1124	Sheep and Goat Farming	51	1,333
1125	Aquaculture	8	5,745
1132	Forest Nurseries and Gathering of Forest Products	64	2,974
1133	Logging	1,489	48,874
1141	Fishing	77	6,424
1142	Hunting and Trapping	105	1,784
1151	Support Activities for Crop Production	1,712	305,784
2111	Oil and Gas Extraction	590	188,003
2121	Coal Mining	Not available	85,925
2122	Metal Ore Mining	Not available	44,418
2123	Nonmetallic Mineral Mining and Quarrying	2,050	87,718
2211	Electric Power Generation, Transmission and Distribution	16,360	393,366
2213	Water, Sewage and Other Systems	461	47,303
3111	Animal Food Manufacturing	356	52,455
3112	Grain and Oilseed Milling	4,744	60,123
3113	Sugar and Confectionery Product Manufacturing	1,837	68,308
3114	Fruit and Vegetable Preserving and Specialty Food Manufacturing	6,340	170,793
3115	Dairy Product Manufacturing	3,928	132,437
3116	Animal Slaughtering and Processing	6,067	482,350
3117	Seafood Product Preparation and Packaging	114	37,417
3118	Bakeries and Tortilla Manufacturing	6,228	282,541
3119	Other Food Manufacturing	3,148	173,423
3121	Beverage Manufacturing	5,246	177,236
3122	Tobacco Manufacturing	Not available	14,035
3131	Fiber, Yarn, and Thread Mills	70	28,140
3132	Fabric Mills	99	55,316
3133	Textile and Fabric Finishing and Fabric Coating Mills	405	34,477
3141	Textile Furnishings Mills	555	51,896
3149	Other Textile Product Mills	1,745	63,567
3151	Apparel Knitting Mills	Not available	14,145
3152	Cut and Sew Apparel Manufacturing	864	121,729
3159	Apparel Accessories and Other Apparel Manufacturing	60	12,436
3161	Leather and Hide Tanning and Finishing	248	3,987
3162	Footwear Manufacturing	Not available	13,623
3169	Other Leather and Allied Product Manufacturing	60	11,827
3211	Sawmills and Wood Preservation	1,710	83,859
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	2,121	62,569
3219	Other Wood Product Manufacturing	4,255	192,549
3221	Pulp, Paper, and Paperboard Mills	3,389	108,026
3222	Converted Paper Product Manufacturing	7,882	271,494
3231	Printing and Related Support Activities	14,055	459,148
3241	Petroleum and Coal Products Manufacturing	1,344	111,436

Table A-1. Water Dependent Private Sector Employment in Michigan and the United States, 2012 (Continued)

3251	Basic Chemical Manufacturing	2,337	143,104
3252	Resin, Synthetic Rubber, and Artificial Synthetic Fibers and Filaments Manufacturing	7,097	91,560
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	694	36,539
3254	Pharmaceutical and Medicine Manufacturing	7,940	269,660
3255	Paint, Coating, and Adhesive Manufacturing	3,204	58,385
3256	Soap, Cleaning Compound, and Toilet Preparation Manufacturing	3,496	102,375
3259	Other Chemical Product and Preparation Manufacturing	3,568	83,866
3261	Plastics Product Manufacturing	29,702	515,233
3262	Rubber Product Manufacturing	4,533	129,583
3272	Glass and Glass Product Manufacturing	3,022	79,638
3273	Cement and Concrete Product Manufacturing	3,702	164,620
3274	Lime and Gypsum Product Manufacturing	216	14,102
3279	Other Nonmetallic Mineral Product Manufacturing	2,648	67,880
3311	Iron and Steel Mills and Ferroalloy Manufacturing	6,107	92,827
3312	Steel Product Manufacturing from Purchased Steel	1,604	58,707
3313	Alumina and Aluminum Production and Processing	1,807	57,640
3314	Nonferrous Metal (except Aluminum) Production and Processing	1,366	62,300
3315	Foundries	10,489	128,507
3321	Forging and Stamping	7,241	98,481
3322	Cutlery and Handtool Manufacturing	1,244	39,343
3323	Architectural and Structural Metals Manufacturing	10,575	341,636
3324	Boiler, Tank, and Shipping Container Manufacturing	1,559	95,147
3325	Hardware Manufacturing	1,509	23,264
3326	Spring and Wire Product Manufacturing	2,712	41,685
3327	Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	27,761	360,426
3328	Coating, Engraving, Heat Treating, and Allied Activities	13,777	135,512
3329	Other Fabricated Metal Product Manufacturing	9,424	268,709
3331	Agriculture, Construction, and Mining Machinery Manufacturing	2,431	246,799
3332	Industrial Machinery Manufacturing	5,360	104,607
3333	Commercial and Service Industry Machinery Manufacturing	1,875	89,371
3334	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing	3,467	126,256
3335	Metalworking Machinery Manufacturing	35,272	177,338
3336	Engine, Turbine, and Power Transmission Equipment Manufacturing	4,210	101,580
3339	Other General Purpose Machinery Manufacturing	13,481	251,789
3341	Computer and Peripheral Equipment Manufacturing	507	157,703
3342	Communications Equipment Manufacturing	611	109,671
3343	Audio and Video Equipment Manufacturing	229	20,316
3344	Semiconductor and Other Electronic Component Manufacturing	7,707	382,700
3345	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	8,199	400,066
3346	Manufacturing and Reproducing Magnetic and Optical Media	864	20,335
3351	Electric Lighting Equipment Manufacturing	521	46,013
3352	Household Appliance Manufacturing	5,234	56,676
3353	Electrical Equipment Manufacturing	2,421	143,108
3359	Other Electrical Equipment and Component Manufacturing	2,761	126,928
3361	Motor Vehicle Manufacturing	39,789	173,169
3362	Motor Vehicle Body and Trailer Manufacturing	6,424	126,806
3363	Motor Vehicle Parts Manufacturing	103,956	483,686
3364	Aerospace Product and Parts Manufacturing	3,758	494,975
3365	Railroad Rolling Stock Manufacturing	Not available	24,095
3366	Ship and Boat Building	1,319	128,350
3369	Other Transportation Equipment Manufacturing	Not available	32,675
3371	Household and Institutional Furniture and Kitchen Cabinet Manufacturing	4,470	217,729
3372	Office Furniture (including Fixtures) Manufacturing	14,563	98,230
3379	Other Furniture Related Product Manufacturing	545	34,843
3391	Medical Equipment and Supplies Manufacturing	11,269	307,540
3399	Other Miscellaneous Manufacturing	6,606	269,712
4831	Deep Sea, Coastal, and Great Lakes Water Transportation	685	39,053
4832	Inland Water Transportation	48	25,719
Total		579,266	13,903,110
Water Dependent Industries Total		717,292	17,851,914

Source: U.S. Bureau of Labor Statistics

Analysis: Anderson Economic Group LLC

Table A-2 Estimate of Water-Related Employment as a Percentage of Total Employment, 2012

State	Employment				Percentage of Total Employment			Ranking of 50 States		
	Core Water Products and Services	Water Enabled Industries	Total Water Related Industries	Total Employment	Core Water Products and Services	Water Enabled Industries	Total Water Related Industries	Core Water Products and Services	Water Enabled	Total Water Related
Indiana	49,716	513,532	562,412	2,418,425	2.1%	21.2%	23.3%	46	1	1
Wisconsin	49,621	487,828	537,295	2,315,717	2.1%	21.1%	23.2%	45	2	2
Alabama	49,906	275,016	323,944	1,467,367	3.4%	18.7%	22.1%	17	4	3
Michigan	138,026	581,028	718,704	3,373,672	4.1%	17.2%	21.3%	10	8	4
Idaho	21,205	82,802	103,989	503,774	4.2%	16.4%	20.6%	9	10	5
Iowa	20,279	235,424	255,509	1,241,299	1.6%	19.0%	20.6%	50	3	6
Arkansas	17,733	176,498	193,857	944,388	1.9%	18.7%	20.5%	47	6	7
Mississippi	14,808	158,503	173,110	846,759	1.7%	18.7%	20.4%	48	5	8
Kansas	32,957	183,102	215,783	1,076,065	3.1%	17.0%	20.1%	24	9	9
Washington	93,785	379,353	472,879	2,378,502	3.9%	15.9%	19.9%	12	14	10
South Carolina	49,577	242,647	291,145	1,478,136	3.4%	16.4%	19.7%	18	11	11
Kentucky	34,987	251,021	285,229	1,455,758	2.4%	17.2%	19.6%	43	7	12
Oregon	39,871	220,070	259,480	1,372,310	2.9%	16.0%	18.9%	28	12	13
Ohio	117,798	693,528	806,596	4,337,301	2.7%	16.0%	18.6%	32	13	14
North Carolina	106,933	479,442	584,545	3,226,792	3.3%	14.9%	18.1%	20	16	15
California	571,542	1,685,345	2,254,208	12,684,429	4.5%	13.3%	17.8%	7	24	16
Minnesota	55,795	341,571	397,191	2,276,259	2.5%	15.0%	17.4%	40	15	17
Vermont	6,666	36,570	42,963	247,087	2.7%	14.8%	17.4%	34	17	18
Tennessee	62,213	328,483	389,182	2,240,924	2.8%	14.7%	17.4%	31	18	19
Oklahoma	32,926	177,847	209,439	1,222,393	2.7%	14.5%	17.1%	35	19	20
Nebraska	21,598	108,136	129,494	762,468	2.8%	14.2%	17.0%	29	22	21
West Virginia	14,040	81,154	94,057	567,438	2.5%	14.3%	16.6%	39	21	22
Illinois	173,711	627,182	799,806	4,843,785	3.6%	12.9%	16.5%	15	26	23
Utah	36,120	129,884	165,760	1,006,278	3.6%	12.9%	16.5%	14	27	24
South Dakota	5,668	47,785	53,442	329,141	1.7%	14.5%	16.2%	49	20	25
Pennsylvania	167,199	625,434	790,039	4,887,296	3.4%	12.8%	16.2%	16	28	26
Wyoming	6,204	28,065	34,269	212,192	2.9%	13.2%	16.1%	27	25	27
New Hampshire	13,856	70,157	83,931	527,252	2.6%	13.3%	15.9%	36	23	28
Texas	340,438	1,070,597	1,406,689	8,964,789	3.8%	11.9%	15.7%	13	32	29
Connecticut	39,389	175,765	215,094	1,391,749	2.8%	12.6%	15.5%	30	29	30
Georgia	93,683	396,240	488,115	3,190,572	2.9%	12.4%	15.3%	26	31	31
Virginia	179,430	260,368	439,283	2,927,218	6.1%	8.9%	15.0%	3	40	32
New Mexico	39,667	50,566	90,121	603,114	6.6%	8.4%	14.9%	1	43	33
Missouri	55,517	271,957	326,734	2,188,757	2.5%	12.4%	14.9%	38	30	34
Louisiana	49,253	179,218	228,228	1,540,332	3.2%	11.6%	14.8%	22	34	35
Maine	12,702	58,046	70,612	486,542	2.6%	11.9%	14.5%	37	33	36
Alaska	11,533	24,541	36,074	248,576	4.6%	9.9%	14.5%	6	37	37
Massachusetts	145,612	265,125	409,840	2,828,275	5.1%	9.4%	14.5%	4	39	38
Colorado	93,836	167,208	259,744	1,891,870	5.0%	8.8%	13.7%	5	41	39
Arizona	63,034	200,849	263,615	2,045,349	3.1%	9.8%	12.9%	23	38	40
Rhode Island	8,630	41,059	49,689	392,112	2.2%	10.5%	12.7%	44	35	41
North Dakota	8,439	34,951	43,332	344,538	2.4%	10.1%	12.6%	41	36	42
Delaware	14,657	28,776	43,427	345,329	4.2%	8.3%	12.6%	8	45	43
New Jersey	130,290	266,462	395,733	3,194,470	4.1%	8.3%	12.4%	11	44	44
Maryland	125,733	125,017	250,064	2,024,063	6.2%	6.2%	12.4%	2	48	45
Montana	10,223	29,803	40,007	347,922	2.9%	8.6%	11.5%	25	42	46
New York	229,917	514,542	741,212	7,190,226	3.2%	7.2%	10.3%	21	46	47
Florida	211,617	432,910	644,089	6,312,193	3.4%	6.9%	10.2%	19	47	48
Nevada	23,996	56,120	80,116	988,141	2.4%	5.7%	8.1%	42	49	49
Hawaii	13,116	22,992	36,085	483,782	2.7%	4.8%	7.5%	33	50	50
United States	3,948,804	13,942,918	17,851,911	110,645,869	3.6%	12.6%	16.1%			

Note: State totals may not sum to US figure due to suppressed data and the exclusion of outlying US possessions

*Where available, for suppressed 2012 data, 2011 BLS Quarterly Census of Employment and Wages or 2011 US Census Bureau County Business Patterns were used.

Source: Bureau of Labor Statistics Quarterly Census of Employment and Wages 2012 Data*; Analysis by Anderson Economic Group

Analysis: Anderson Economic Group

Appendix B. Summary of Past URC Sector Reports

In 2013 the URC commissioned a study exploring the impact alumni entrepreneurs of MSU, U-M, and WSU have on the Michigan, U.S. and global economies. The URC has also commissioned annual industry sector reports. Key findings from those reports include:

ALUMNI ENTREPRENEURSHIP (2013)

- URC alumni entrepreneurs started or acquired businesses at double the national average rate among college graduates since 1996.
- 50% of the companies created by URC entrepreneurs are located in Michigan with the rest in every other state and more than 100 different countries.
- Compared to the most recently available five-year success rate for U.S. firms, URC alumni-started firms were nearly 1.5 times more likely to remain in operation.
- Most URC entrepreneurs start a business in an area outside their major areas of study.

AUTOMOTIVE INNOVATION (2012)

- The URC universities supply talented workers to the auto industry, conferring more than 3,600 degrees annually in auto-ready disciplines.
- URC universities play a direct role in auto industry innovation by spending \$60 million annually of their R&D dollars on auto-related research and development.
- Between FY 2007 and 2011, the URC universities spent \$300 million on over 1,400 auto projects. Nearly two-thirds of this research was funded by federal and state governmental agencies.
- Private industry funded 28 percent of all auto research at the URC universities in the past five years, which is nine times the average share of industry funding for all university R&D at these institutions.
- URC researchers have helped automakers improve vehicle quality and safety, improve engine efficiency and performance, and reduce fossil fuel use through new auto approaches. Specific examples include:
 - The 2mm project that involved U-M and WSU that limited and controlled the gaps between auto components;
 - The connected vehicle research at U-M and WSU that promises improved safety by allowing vehicles to “talk” to one another and the infrastructure;
 - Biofuels research that is currently being done by MSU on new types of feedstock that can be grown more economically to lower fuel costs and improve fuel efficiency.

INFORMATION AND COMMUNICATION TECHNOLOGY (2011)

- The URC universities spent nearly \$74 million on research projects with a strong IT focus in FY2010.
- Of the nearly 150 start-ups the URC has assisted in creating since 2001, approximately 40 percent have had a distinct ICT component.
- Information technology employs about 3.5 percent of the state's workforce, or about 135,000 workers, and is significant not only as its own sector but as the underpinning for much of the major industry activity and growth represented in previous sector reports.
- The industry pays high wages, with employees earning about \$20,000 more than other workers in the private sector.

ADVANCED MANUFACTURING (2010)

- Michigan's advanced manufacturing industry employs 381,351 workers, accounting for 10.3 percent of all employment (2007 data). Fully one-third of advanced manufacturing jobs in the Midwest are in Michigan.
- The average wage in the advanced manufacturing industry was \$64,122.
- URC universities spent \$101 million on advanced manufacturing R&D in 2009.
- URC universities are educating more than 14,000 students in engineering.

LIFE SCIENCES (2009)

- Michigan's life sciences industry employed more than 79,000 workers, accounting for 2.1 percent of all employment (2006 data).
- Between 1999 and 2006, life sciences industry employment grew by 10.7 percent while during that same time period manufacturing employment dropped by 24 percent.
- Life sciences wages averaged \$83,494 in 2006.
- In 2008, URC universities spent \$887 million on life sciences research and development.
- R&D expenditures grew 69 percent since the founding of the Life Sciences Corridor in 1999.

ALTERNATIVE ENERGY RESEARCH AND DEVELOPMENT (2008)

- Michigan has a comparative advantage in biomass and wind compared to the energy potential in the other 49 states.
- URC universities spent more than \$79.5 million on R&D related to alternative energy in 2007.
- Federal funding provided 71 percent (\$56.8 million) of total R&D funding in alternative energy.
- More than 50 percent of all alternative energy R&D supported the auto industry.

Appendix C. About the Author

ANDERSON ECONOMIC GROUP

Anderson Economic Group, LLC is a research and consulting firm specializing in economics, public policy, finance and business valuation, and market and industry analysis. The firm has offices in Chicago, Illinois and East Lansing, Michigan. AEG has conducted economic and fiscal impact studies for private, public, and non-profit clients across the United States.

Since 2007, AEG has completed two annual studies for the University Research Corridor. The first report is an assessment of the URC's economic impact on the state of Michigan, which is released every fall or winter. The second report is an assessment of how the URC universities contribute to an important economic sector in the state, which is released every spring. For past reports and more information on AEG, visit www.AndersonEconomicGroup.com.

STUDY'S AUTHOR

Alexander L. Rosaen. Mr. Rosaen is a Senior Consultant at Anderson Economic Group, and the Director of Public Policy and Economic Analysis. Mr. Rosaen's background is in applied economics and public finance.

Mr. Rosaen's recent work includes several economic and fiscal impact analyses, including of proposed real estate developments, power plants, and infrastructure projects; analysis of tax incentives; an analysis of the impact of federal tax incentives on the freight rail industry; and an analysis of the economic contribution that research universities make in the State of Michigan.

Prior to joining Anderson Economic Group, Mr. Rosaen worked for the Office of Retirement Services (part of the Michigan Department of Management and Budget) for the Benefit Plan Design group. He has also worked as a mechanical engineer for Williams International in Walled Lake, Michigan.

Mr. Rosaen holds a Masters in Public Policy from the Gerald R. Ford School of Public Policy at the University of Michigan. He also has a Masters of Science and a Bachelors of Science in mechanical engineering from the University of Michigan.

Water Cluster Study

Quinn, Christine (WDA)

Tue 6/10/2014 5:25 AM

To: Black-Watson, Marcia (WDA) <black-watsonm@michigan.gov>; Davis, Florine (WDA) <DavisF@michigan.gov>; Fisher, Richard (WDA) <FisherR2@michigan.gov>; Guzman, Reynaldo (WDA) <GuzmanR1@michigan.gov>; Knapp, Christopher (WDA) <KnappC@michigan.gov>; Lautenschleger, Jim (WDA) <LautenschlegerJ@michigan.gov>;

1 attachment (911 KB)

URC_Water-Industry-Sector.pdf;

Christine

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<https://www.facebook.com/MIVeteransServices>



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FW: Governor's Budget

Fisher, Richard (WDA)

Wed 2/5/2014 11:36 AM

To: Black-Watson, Marcia (WDA) <black-watsonm@michigan.gov>; Knapp, Christopher (WDA) <KnappC@michigan.gov>;
Guzman, Reynaldo (WDA) <GuzmanR1@michigan.gov>;

1 attachment (45 KB)

Talking Points_FY2015Budget_Final.docx.docx;

FYI.

From: Delaney McKinley [mailto:McKinley@mimfg.org]

Sent: Wednesday, February 05, 2014 11:30 AM

To: Fisher, Richard (WDA)

Subject: RE: Governor's Budget

Its just being released now – I think he's literally giving his presentation now. Here's some talking points.
Thanks for sharing what you find!

Delaney

Delaney McKinley | Tel: 517.487.8530 | Fax: 517.853.3330 | Email: mckinley@mimfg.org

From: Fisher, Richard (WDA) [mailto:FisherR2@michigan.gov]

Sent: Wednesday, February 05, 2014 11:28 AM

To: Delaney McKinley

Subject: RE: Governor's Budget

Hi Delaney,

I was just looking for the budget – where'd you find it? The Automotive, Engineering and Manufacturing Technology Fund is new to me. I'll research and share my findings with you.

From: Delaney McKinley [mailto:McKinley@mimfg.org]

Sent: Wednesday, February 05, 2014 11:21 AM

To: Fisher, Richard (WDA)

Subject: Governor's Budget

Importance: High

Hey Rick! Great to see that the Governor is recommending another \$10 million to the Skilled Trades Training Fund! He's also recommending \$5 million to an "Automotive, Engineering and Manufacturing Technology Fund". Do you have any additional info on that? Thanks much!

Delaney

Delaney McKinley | Director of Human Resource Policy | Michigan Manufacturers Association

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DISCUSSION POINTS
Governor's FY 2015 Executive Budget Recommendation
February 5, 2014

Key Points

- The governor's FY 2015 budget recommendation reflects Michigan's impressive comeback.
- Gov. Snyder inherited a \$1.5 billion budget deficit upon taking office in 2011. Fast-forward to January 2014, when the state's improving economy helped to generate \$971million in additional revenue for the state.
- This is a healthy, responsible budget built on the foundation of fiscal discipline and economic growth policies laid over the past three years.
- It mirrors the values and priorities of Michiganders. Nearly three-fourths of the budget is devoted to education, and health & human services.
- This is a taxpayer's budget:
 - It respects the fact that Michigan taxpayers foot the bill by providing additional property tax relief for about 1.3 million low- to middle-income taxpayers.
 - It saves money in the long run through upfront investments in critical areas such as transportation, public safety, and health & human services.
 - It adds \$120 million to the Budget Stabilization ("Rainy Day") Fund, which is the state's savings account.
 - It pays down long-term obligations.
 - It ensures that taxpayers receive value for their hard-earned money by tying state spending to measured outcomes.
- The governor continues to invest heavily in education. He recommends \$11.7 billion for K-12 education alone, a \$1 billion increase in state funding for classrooms over FY 2011. This includes \$150 million toward the foundation allowance, which equates to a range of \$83 to \$111 per student.
 - He also proposes an additional \$80.3 million for our public universities – a 6.1% increase – and an additional \$8.9 million for community colleges – a 3% increase.
 - This is the largest percentage increase for universities since FY 2001.
- Other areas of emphasis in the budget are job growth, transportation, stronger communities, environmental & natural resources protection, and increased public health and safety.
- This budget strikes the right balance by making critical investments to fuel Michigan's comeback, reducing state debts, saving for the future, and giving taxpayers a break.

Budget Facts

- Budget total: \$52.1 billion
- General Fund budget total: \$9.8 billion
- School Aid Fund total: \$12.2 billion
- New investments (one time and ongoing; doesn't include deposits to reserves): \$1.4 billion
- Budget Stabilization (Rainy Day) Fund deposit: \$120 million (brings balance to \$700 million)
- Health Savings Fund deposit: \$122 million (now a sub-fund of the Rainy Day Fund)
- Total in state savings accounts: \$822 million (Rainy Day fund and health sub-fund)
- Michigan Public School Employees Retirement System (MPSERS) reserve: \$50 million

Education Highlights

- A strong, 21st century education is key to the success of our children and the prosperity of our state. Gov. Snyder's staunch support of education is unwavering.
- This budget provides significant investment at all academic levels. These funds also invest in innovative ways to improve and enhance education, whether it's expanding the learning calendar year, helping teachers enhance their skills, or improving the infrastructure to meet online learning needs.
- Preparing students to meet the needs of a global economy and changing work force demands innovative thinking and system reinvention.

● Early Childhood:

- An additional \$65 million for the Great Start Readiness Program, to benefit 4-year-olds who are unable to access preschool services due to funding constraints. More than 16,000 additional children will now receive a quality preschool education and the waiting list will be eliminated, making Michigan a "no wait state" for early education.

● K-12:

- \$11.7 billion for K-12 education, a \$1 billion increase in state funding over FY 2011.
- \$150 million toward the foundation allowance, which equates to a range of \$83 to \$111 per student.
- An increase of \$270 million to fund the retirement liabilities within the school retirement system over and above the district share, which is now capped at 20.96 percent. This ensures that retirement promises made to teachers can be kept.
- \$2 million to pilot voluntary year-round school programs to enhance learning through a more balanced school year calendar.
- \$7.3 million for greater support to financially distressed schools by creating a Financial Independence Team. The new multi-agency team will help to provide an "early warning system" to identify troubled schools needing assistance.
- \$27.8 million for the phased-in implementation of evaluation tools and systems for teachers and administrators.
- \$1.8 million in funding incentives for schools offering dual enrollment, which allow students to earn college credits while still in high school.
- \$80 million to reward schools that incorporate best practices.
- \$50 million in technology infrastructure grants to help districts meet online learning needs.
- \$5 million to assist with consolidation of school districts or services.
- Nearly \$1.4 billion to provide over 208,000 students with special education services.
- \$10 million in emergency reserves for school districts at risk of closure during a school year and for fiscal relief to districts that may have to enroll students from a dissolved district.

- **Post Secondary Education:**

- \$80.3 million for our public universities (a 6.1% increase) and \$8.9 million for community colleges (a 3% increase). This is the largest percentage increase for universities since FY 2001.
- Universities and community colleges must hold tuition increases under 3.2% in order to receive new operations funding.

Tax Relief Highlights

- The governor understands the needs of Michigan families, and respects the fact that taxpayers foot the bill for the state's services.
- Any tax relief must be balanced with needed investments in critical areas such as public safety, education and transportation.
- The governor recommends expanding the Homestead Property Tax credit.
 - Results in \$102.7 million in additional property tax relief to low- and middle-income seniors, disabled residents and working families.
 - This plan will generate increased tax refunds for 1.3 million taxpayers.
- How the plan works:
 - Currently, the general Homestead Property Tax Credit is available to homeowners and renters with incomes up to \$50,000. It is calculated by subtracting 3.5% of the taxpayer's income from the amount of property taxes on the taxpayer's home and multiplying that result by 60%. An enhanced credit is available for low-income seniors and disabled citizens. Renters calculate their credit using 20% of rent.
 - Beginning with tax year 2013, the governor proposes two significant changes to the calculation of the Homestead Property Tax Credit. First, the governor proposes to change the Homestead Property Tax Credit income percentage from 3.5% to 3%, allowing a greater percentage of property taxes to be refunded. Second, the governor proposes to extend the credit of taxpayer's with incomes up to \$60,000.
 - Taxpayers who qualify for and claim the existing credit will be issued a supplemental refund check in the summer of 2014 for the 2013 tax year. Newly eligible taxpayers will need to file a credit claim in order to receive a refund. In future years, eligible taxpayers will simply claim the credit by filing a Homestead Property Tax Credit return.

Job Growth Highlights

- Gov. Snyder continues to be relentless when it comes to Michigan's economic turnaround. His innovative policies will keep this positive momentum driving forward.
- Gov. Snyder is the nation's most pro-immigration governor. He knows that attracting highly skilled, job-creating immigrants to Michigan will result in more and better jobs for our families. He recommends \$385,000 to create the Office for New Americans, which will allow the state to drive strategies for attracting immigrants with advanced academic degrees or entrepreneurial skills.
- \$5 million for the Automotive, Engineering and Manufacturing Technology Fund will allow Michigan to focus on this important sector of the economy.
- \$10 million for the skilled trades training program will encourage more residents to master a skilled trade, which helps to address job-to-talent mismatches.

- The budget proposes \$100 million in bond funds for an engineering talent investment program for universities and another \$50 million in bond funds for a community college skilled-trades equipment program.
- The agriculture industry plays a vital and important role in the Michigan economy. A total of \$2 million in new funding for the Food and Agriculture Industry Growth Initiative is focused on removing barriers and leveraging opportunities identified by food processors, agri-business, and those in agricultural production critical to business development and growth.
- The Pure Michigan campaign has proved to be a successful investment, attracting tourists from across the globe and helping to improve the economy. And it's a smart investment with a high return on the dollar. A total of \$2 million in new funding for Pure Michigan is proposed to keep the momentum going.
- An increase of \$15 million is recommended in funding for community revitalization and business attraction efforts.

Healthier Families Highlights

- The governor is a strong proponent of improving the health of Michigan residents. A healthier Michigan is good for the individual, good for the economy, and good for all taxpayers.
- \$17.4 billion will assist the Department of Community Health in developing health policy and managing the state's publicly funded health care systems. Programs include Medicaid, mental health services, substance abuse treatment and public health services.
- \$71.7 million will allow for the implementation of the Healthy Michigan Plan, which makes health care benefits available to low-income residents while encouraging healthy behaviors and personal responsibility.
- \$15.7 million in gross funding for the Healthy Kids Dental program, allowing for expansion into Kalamazoo and Macomb counties. This will result in 100,000 more kids receiving dental care, which leads to an overall improvement in health.
- \$2.5 million to expand rural prenatal health visitations in the Upper Peninsula and northern Lower Michigan by the Department of Community Health.
- \$15.6 million to support recommendations in the Jan. 21 report issued by the Michigan Mental Health and Wellness Commission.
- \$3 million for programs at Eastern Michigan University, Western Michigan University and Michigan State University to train autism treatment providers. This will increase the number of trained service providers and available autism services.
- \$6.1 million for jail diversion programs, to help divert people with mental illness or developmental disabilities from the criminal justice system and provide them with needed medical attention.

Infrastructure & Transportation Highlights

- A modern, well-maintained system of roads and bridges is vital to Michigan's economy.
- Last year, the governor proposed a comprehensive solution to fixing our roads through a \$1.2 billion investment package. While discussions continue with our legislative partners, the governor remains committed to addressing this situation.
- The longer we wait to fix our roads, the more it will cost taxpayers. The annual need has now grown to \$1.3 billion.

- For FY 2015, the governor proposes \$254 million to match all available federal aid to improve roads and bridges and our transportation systems across the state.

Human Services Highlights

- Michiganders take care of each other. The governor's proposed budget enhances state support for our vulnerable residents.
- \$410.6 million will support Michigan's child welfare system, to provide services for abused and neglected children.
- \$510,200 for the Office of the Children's Ombudsman, enhancing the investigation of complaints concerning children who for reasons of abuse or neglect are under the supervision of the Department of Human Services or its private contracted agencies.
- \$190.3 million for foster care. This will support 6,100 children in out-of-home care to give them the care and supervision they need until they are returned to their parents or are adopted.
- \$241.1 million to support 26,800 abused or neglected children who have been adopted in permanent homes.
- \$151.6 million to provide 33,200 families with financial support through the Family Independence Program, with the goal of helping them find employment and become self-sufficient.
- \$235 million in federal and state funds to support heating assistance programs. No Michigan family should be without heat during the winter months, and protecting families from losing home heating is a priority for the governor.
- \$179.9 million for Michigan's child support program, to help children obtain child support from absent parents. Child support enforcement will be enhanced with \$3 million to develop a Web-based employer portal and information database.

Serving Seniors Highlights

- The governor's budget offers substantial support for Michigan seniors.
- \$5 million will expand the distribution of home-delivered meals, and expand other in-home services such as home health aides, personal care, homemaking and other care management services. This investment eliminates the waiting list for these services.
- The MI Choice Waiver Program helps seniors and residents with disabilities who might otherwise be living in a nursing home to receive needed care and services while remaining in their home. Another \$9 million will eliminate the waiting list for this program, ensuring that those who want to remain in their homes can do so.
- We cannot tolerate any abuse of our seniors. A total of \$1 million will go toward increasing awareness of the new penalties under recently passed elder abuse laws, as well as for training medical and financial professionals.

Supporting Our Veterans Highlights

- Supporting our troops upon their return to Michigan is the right thing to do. Their sacrifices have earned our gratitude and assistance. But assisting with their transition is good for Michigan's economic comeback as well.
- \$5 million will create a state tuition assistance program for eligible Air and Army National Guard personnel.
- \$750,000 will provide 10 new regional coordinators for the Veteran Service Coalition. These

coordinators will manage the workload of Veterans Services Organizations and help to monitor and measure performance, including incentives for increased grants to regions that exceed established goals.

- \$7 million for capital improvements to armories and veterans homes across the state (\$4 million for armories and \$3 million for veterans homes)

Making Michigan Safer Highlights

- Michigan must be a safe place to live and work. Safe cities and neighborhoods improve our overall quality of life and our economy.
- Prior investments to protect Michigan's roadways and communities are working. In the first 10 months of 2013, violent crimes were down 30% in Flint, down 16% in Saginaw, down 7% in Detroit, and down 6.5% in Pontiac.
- \$17.8 million will train an additional 100 state troopers and 31 motor carrier officers through the Michigan State Police Training Academy. Michigan's trooper strength in 2011 stood at 957. With this new investment, projected trooper strength in 2015 will move to 1,184.
- \$25.3 million to replace equipment within the Michigan Public Safety Communications System, helping ensure that emergency first responders can share information during times of crisis and respond to distress calls quickly.
- Michigan's corrections system fulfills a critical safety function. This budget recommends \$1.6 billion to operate a safe, secure prison system that currently houses 43,700 prisoners. Total corrections funding is set at \$2 billion and includes probation, parole and community support.
- Improving the timeliness of arrests improves the safety of our state. A new investment of \$750,000 is provided to fund the electronic warrant to disposition reporting system, developing a statewide information exchange to eliminate redundant data entry required to request, approve, and issue warrants for arrest.
- One of Michigan's greatest threats comes from the cyber world. Cyber terrorists and hackers are attacking Michigan's computer systems and networks every day. Cyber crime can cost businesses as much as \$1 trillion globally. In 2012, the state of Michigan blocked 187,000 cyber attacks each day. This budget recommends \$6.7 million in added funding for the enhancement of the state's cyber security efforts to improve the ability of cyber professionals to respond to cyber attacks.
- Bullying and hate crimes will not be tolerated. A total of \$500,000 is recommended in new funding for Civil Rights to expand initiatives focused on anti-bullying and hate crimes.

Protecting Our Environment & Natural Resources Highlights

- Michigan's natural treasures must be protected. This budget continues the governor's strong investment in environmental and natural resources protection and enhancement.
- \$3.5 million to hire and train 25 additional DNR conservation officers to enforce the law. Coupled with the new conservation officers currently in training, this brings the total number of conservation officers to 227, up from 186 in 2010.
- Gov. Snyder is following through on his commitment to make Michigan the "Trail State." A total of \$2.5 million in new funding is provided for the development of a trail system from Belle Isle to the Wisconsin border in the Upper Peninsula.
- Invasive species can do great harm to Michigan's natural resources and economy. The governor is committed to the prevention, detection and eradication of invasives and he

proposes \$6 million in new funding toward this effort.

- Michigan's forests are protected in this budget with \$4 million in new funding for wildfire protection and forest management through the hiring of 10 new foresters. Continued funding in the amount of \$2.5 million is provided for the Qualified Forest Program designed to assist landowners in private forest management while providing the economic benefit of harvests on non-industrial private forest land.
- A new investment of \$1 million is provided for the Michigan Civilian Conservation Corps, helping put youth and returning veterans to work in protecting our natural resources.
- \$6.5 million in added funding for the repair and maintenance of state parks.
- \$1.9 million to protect Michiganders by maintaining the current Hazardous Waste Management program.
- \$1 million for a recycling initiative to increase the number of counties with convenient access to recycling.
- \$4 million to support the Water Quality and Use Initiative, which focuses on developing a comprehensive water strategy to address the increased demand for water quality. Also recommended is \$2.5 million for the Drinking Water Revolving Fund.
- \$3 million devoted to clean up leaking underground storage tanks.

Arts and Culture Highlights

- A vibrant arts and culture sector is essential to creating strong communities, growing our economy and enhancing our overall quality of life.
- \$2 million will be devoted to increasing the visibility of this vital sector; supporting arts education; encouraging creative and innovative works of art; and broadening cultural understanding.

Ensuring Food Safety Highlights

- The safety and quality of Michigan's food supply is vital to the health of our state.
- \$1.8 million will increase the number of inspectors for food and dairy safety to meet the expanding needs in the milk and food processing markets.
- \$800,000 to continue the pesticide and plant-pest management program, which is responsible for the production, distribution and use of pesticides, animal feed and fertilizer products.

Stronger Communities Highlights

- Michigan is only as strong as its communities. Whether it's a small community or one of our urban cores, Michigan's future depends on leadership and success at the local level.
- To assist with the Detroit bankruptcy and in an effort to reduce impacts on city pensioners, a total of \$17.5 million over 20 years is set aside annually in tobacco settlement reserves to resolve ongoing issues in the bankruptcy of Detroit.
- New funding of \$36 million is provided to support governments across Michigan through the Economic Vitality Incentive Program, enhancing incentive-based funding, helping high-need communities and rewarding others that adopt best practices.
- Local governments are supported with \$764.9 million in constitutional revenue sharing payments and \$211.2 million in county payments.
- \$2.5 million for the Regional Prosperity Program, which encourages communities to work

collaboratively to develop regional economic development models.

Good Government Highlights

- Taxpayers deserve effective, efficient government at all levels. This budget dedicates resources to help give taxpayers the best service possible.
- Michigan's trial courts need a single case management system to improve efficiency. A total of \$4.1 million is recommended for the implementation of the Next Generation Michigan Court System, moving the state's trial courts to a single case management system linking all locations and bringing greater efficiency to case management. A total of \$1 million is also provided for the Trial Court Performance Innovation Fund, providing grants to trial courts with innovative ideas for improving court performance and service to citizens.
- \$18 million is dedicated to Unemployment Insurance Agency to maintain customer service while pursuing process improvements in the midst of reduced federal support. An additional \$2.4 million is provided for designing an application for mobile filing of unemployment claims.
- \$1.8 million is provided for fraud detection within the Department of State, helping to reduce fraud during vehicle registration renewals and improving data analytics for fraud prevention.

Fiscal Responsibility Highlights

- Upon taking office, the governor faced a \$1.5 billion budget deficit. Working with his legislative partners, that deficit was erased, and Michigan is now able to reinvest in its priorities. This success is due to Michigan's return to fiscal discipline.
- \$120 million will be deposited into the Budget Stabilization ("Rainy Day") Fund, bringing the total balance to \$700 million. When the governor first took office, the fund was at a mere \$2.2 million.
- \$122 million into the newly created Michigan Health Savings Fund to offset future health care costs. When combined with the Rainy Day Fund balance of \$700 million, the state's total savings is \$822 million.
- The governor's focus on paying down debt and solving our long-term liabilities continues with this budget with an increase of \$270 million to fund the retirement liabilities within the school retirement system over and above the district share which is now capped at 20.96%, providing stability to the system and ensuring that the retirement promises made to teachers are kept.

Preventative Maintenance Highlights

- Investing in the maintenance of state facilities is the prudent thing to do. Wise investments now help to prevent higher costs later, which is good news for taxpayers.
- \$5 million in increased funding for infrastructure investments in state facilities, avoiding future upkeep that would result in higher costs, bringing the total investment to \$33 million.

Technology Highlights

- Investments in technology are a key driver for improved government efficiency and cost savings for taxpayers.
- \$28 million is proposed for the Information Technology Investment Fund to support various IT-related projects, including upgrades and replacements of outdated computer systems.

END

FW: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

Hardeman, Deborah (WDA)

Tue 10/6/2015 10:10 AM

To: Wyatt, Rayetta (WDA) <WyattR1@michigan.gov>;

FYI. How are you!

Deborah Hardeman

Disabled Veterans' Outreach Program Specialist (DVOP)

From: Michigan Department of Health and Human Services [mailto:MDHHS@govsubscriptions.michigan.gov]

Sent: Monday, October 05, 2015 4:09 PM

To: Hardeman, Deborah (WDA)

Subject: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday



Press Release

FOR IMMEDIATE RELEASE: October 5, 2015

CONTACT: Jennifer Eisner, (517) 241-2112

Water filters available for MDHHS clients, all Flint residents beginning Tuesday

LANSING, Mich. – Free water filters will be available to current Michigan Department of Health and Human Services clients and Flint residents at four locations beginning Tuesday, October 6, at 9 a.m. through a partnership between the MDHHS and the Genesee County Community Action Resource Department. Free National Sanitation Foundation certified water filters are being provided to Flint residents as part of the administration's comprehensive approach to addressing water concerns in the area.

Current MDHHS clients are encouraged to visit either the 125 E. Union St. or 4809 Clio Road MDHHS office location to obtain a free, certified home water filter. Residents who are not currently enrolled in MDHHS assistance programs should visit the Genesee County Community Action

Resource Department offices located at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be onsite at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation.

"Ensuring that families in the Flint area have access to resources that will help reduce the potential for lead exposure is our top priority," said Nick Lyon, director of the MDHHS. "I want to thank our partners who have mobilized to make water filters available – a point that highlights the importance of continued collaboration at the local, state and federal level as we move forward."

MDHHS clients in the city of Flint who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA), or Social Security Insurance (SSI) recipients should bring valid identification and a copy of their water bill to their local MDHHS office to receive their filter free of charge. Flint residents who are not active MDHHS clients should bring identification and their water bill to the GCCARD location.

Although blood lead levels throughout the city of Flint have remained steady, last week, MDHHS data was found to be consistent with a recent Hurley Children's Hospital study indicating increased blood lead levels in children residing in two Flint ZIP codes after a 2014 change in water source. While lead paint remains the number one cause of lead poisoning in Michigan, the recent data prompted MDHHS to take action to reduce potential lead exposures through water sources.

MDHHS is urging parents in Flint and throughout the state to do their part in preventing elevated blood lead levels in children. For more information about steps you can take now, visit www.michigan.gov/lead, or contact your local health department. For updates on Flint water and available resources, visit www.michigan.gov/flintwater.

###

- [Flint Filters Press Release 10515.pdf](#)



Become a foster parent through Michigan Department of Health & Human Services foster care program.

Questions? [Contact Us](#)

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This email was sent to hardemand@michigan.gov using GovDelivery, on behalf of: Michigan Dept of Health & Human Services - 235 S. Grand Ave W, Lansing, MI 48909 - 1-855-275-6424

RE: WATER & CLOTHING GIVEAWAY

Sherry Goble <sgoble@gsworks.org>

Wed 11/18/2015 10:18 AM

To: Wyatt, Rayetta (WDA) <WyattR1@michigan.gov>;

You are welcome! ☺

Sherry Adair-Goble

Senior Administrative Assistant



Ph. (810) 233-5974 Ext. 353

Fax (810) 233-8652

[Email](#) | [Facebook](#) | [Twitter](#)

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From: Wyatt, Rayetta (WDA) [<mailto:WyattR1@michigan.gov>]

Sent: Wednesday, November 18, 2015 10:13 AM

To: Sherry Goble

Subject: RE: WATER & CLOTHING GIVEAWAY

Good Morning Sherry,

Thank you very much for this information. It's greatly appreciated.

Respectfully,

Rayetta

From: Sherry Goble [<mailto:sgoble@gsworks.org>]

Sent: Tuesday, November 17, 2015 11:22 AM

To: Wyatt, Rayetta (WDA)

Subject: FW: WATER & CLOTHING GIVEAWAY

One more! ☺

Sherry Adair-Goble

Senior Administrative Assistant



Ph. (810) 233-5974 Ext. 353

Fax (810) 233-8652

Email | [Facebook](#) | [Twitter](#)

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From: Chennelle Dismond [<mailto:cdismond@metroflint.org>]

Sent: Tuesday, November 17, 2015 11:02 AM

To: Chennelle Dismond

Subject: WATER & CLOTHING GIVEAWAY

PLEASE SHARE THIS WITH YOUR CLIENTS IN NEED OF CLOTHING AND EXTRA WATER!

The Baptist State Convention of Michigan and Westside Baptist Church are sponsoring a WATER & CLOTHING GIVEAWAY, in cooperation with Crossover Downtown Outreach Ministry.

The **WATER & CLOTHING GIVEAWAY** will be held:

Saturday, November 21st
from 12:30 p.m. to 2:30 p.m.

at

New Haven Baptist Church • 1477 E. Bristol Road • Burton MI • 810-780-4965

&

Foss Avenue Baptist Church • 1159 E. Foss Avenue • Flint MI • 810-787-9019

Please share the attached flyer with your clients!

Thank you,
Denise

Denise Diller,
Development Officer
denisediller@crossoverministryflint.org



Crossover Downtown Outreach Ministry
414 W. Court Street • Flint, MI 48503
Phone: (810) 234-2479 • Fax: (810) 234-8688
www.crossoverministryflint.org

FW: Call for Volunteers

Jameca Patrick-Singleton <jpsingleton@metroflint.org>

Mon 11/2/2015 10:44 AM

To: Jameca Patrick-Singleton <jpsingleton@metroflint.org>;

Importance: High

1 attachment (48 KB)

Volunteer Application.doc;

Jen Boyer sent the following message from the Genesee County Emergency Management office. She is searching for volunteers to help distribute water filters. She desperately needs people who will help distribute these filters. Please share this information. Thank you!

Subject: Call for Volunteers

Hi Connie,

Our Office is trying to drum up some volunteers to help with a few distribution sites for the WATER FILTER REFILLS within the City of Flint next week (11/2-11/6)! Could you share this email with colleagues to help get the word out?

I am looking for individuals that would like to volunteer during the following dates and times. Short shifts can be scheduled as needed.

Monday, Nov 2	8:30am-4:00pm, 6pm-7:30pm
Tuesday, Nov 3	8:30am-4:00pm
Wednesday, Nov 4	8:30am-4:00pm
Thursday, Nov 5	8:30am-4:00pm
Friday, Nov 6	8:30am-4:00pm

If anyone is interested, please fill out the attached volunteer application and email it to jboyer@co.genesee.mi.us with the day and time that you are available to volunteer.

Please email any questions to jboyer@co.genesee.mi.us!

Thank you for your assistance on this, your help is always appreciated!

Jenifer Boyer, PEM

Emergency Management Manager

*Office of Genesee County Sheriff
Emergency Management Homeland Security Division
1002 South Saginaw Street
Flint, MI 48502
(810) 424-4403 (direct)
(810) 237-6169 (fax)*

<https://www.facebook.com/GCEMHS>

www.areyoureadysetsafe.com

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Office of Genesee County Sheriff
Emergency Management/Homeland Security
SHERIFF ROBERT J. PICKELL

RE: Water for Flint

FF Ferro, Frank (WDA)

Reply all |

To: ☐ Janice Karcher <jkarcher@flintandgenesee.org>;

Mon 11/2/2015 10:30 AM

Hi Janice,

All is well here. I had my first Executive Committee meeting with the GTIB last week and we have a lot of follow-up, which is great. The board seems really engaged.

Just checking to see if your team has been in touch with Mr. Brinkmeyer. He's emailed me a few times.

Thanks!

Frank

Frank Ferro, EDFP, CGBP

Governor's Talent Investment Board Manager

Workforce Development Agency, State of Michigan

201 N. Washington Square

Lansing, MI 48913

FerroF1@michigan.gov

517.335.5552

From: Janice Karcher [mailto:jkarcher@flintandgenesee.org]**Sent:** Thursday, October 8, 2015 1:37 PM**To:** Ferro, Frank (WDA) <FerroF1@michigan.gov>**Subject:** RE: Water for Flint

Hi, Frank. Congrats on your new role and I agree that it will be great if we can work together going forward!

Thank you for the information from Mr. Brinkmeyer.

Someone from my team will call him to make an introduction and learn more about his products and services.

Talk to you soon.

From: Ferro, Frank (WDA) [mailto:FerroF1@michigan.gov]**Sent:** Thursday, October 8, 2015 1:10 PM**To:** Janice Karcher <jkarcher@flintandgenesee.org>**Subject:** Water for Flint

Hi Janice,

Long time, no see; I hope you are doing great. As you may know, I accepted a great position with MEDC's sister agency, the State of Michigan Workforce Development Agency. I am the Governor's Talent Investment Board Manager. I hope we can continue to work together!

Please see the email below from Matt Brinkmeyer of Superatus Enterprises. He'd like to speak to you (or the City of Flint) about his filtered water product, information of which is attached.

Thanks!
Frank

Frank Ferro, EDFP, CGBP
Governor's Talent Investment Board Manager
Workforce Development Agency, State of Michigan
201 N. Washington Square
Lansing, MI 48913
Ferrof1@michigan.gov
517.335.5552



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From: Matt Brinkmeyer [<mailto:Matt@superatusenterprises.com>]
Sent: Thursday, October 08, 2015 12:30 PM
To: Ferro, Frank (WDA)
Subject: Water for Flint

Dear Frank,

Thank you for taking the time to speak with me regarding our products and the condition of Flint, MI. I've attached some information on our products as well as our site so you may read up on us as well as the different products we offer and their uses. Please forward onto anyone you feel would benefit from this information and would like to work together in improving the water issue in Flint. I believe our products have the ability to help those in need and would be a great source to improving one of our states largest issues at hand. Thank you.

Sincerely,

Matt Brinkmeyer
President
Superatus Enterprises LLC.
616-855-1158

superatusenterprises.com

"THE MOST TRUSTED NAME IN WATER FILTRATION"	Potential Health Effect Source EPA booklet 815-K-97-002	Seychelle Bottles and Water Pitchers	Avg. of 3 leading Water Pitcher brands
		100 Gallons /150 Gallons	40 Gallons (each)
Chlorine		99.99%	95.0%
VOLATILE ORGANIC COMPOUNDS			
acetone	Cancer, leukemia, anemia	96.20%	*N/C
rochlor 1260 (PCB)	Cancer	94.50%	99.40%
enzene	Cancer, leukemia, anemia	99.50%	
arbon Tetrachloride	Cancer	99.63%	96.90%
chlorobenzene	Liver, kidney, nervous system damage	99.20%	N/C
BCP Dibromochloropropane	Reproductive system damage, cancer	99.00%	N/C
1 Dichloroethane	Liver, kidney, nervous system damage	99.80%	N/C
1 Dichloroethylene	Liver, kidney damage, cancer	99.80%	N/C
is 1,2 Dichloroethylene	Liver, kidney, circulatory, nervous system	99.80%	N/C
1,1 & 2 Trichloroethane	Liver, kidney, nervous system damage	99.76%	N/C
2,4 Trichlorobenzene	Liver, kidney damage	99.80%	N/C
2 Dichlorobenzene	Liver, kidney, lung damage, cancer	99.71%	N/C
4 Dichlorobenzene	Cancer	99.71%	N/C
2 Dichloroethane	Cancer	99.80%	N/C
2 Dichloropropane	Liver kidney, circulatory, nervous system	99.80%	N/C
4 DDD, 4,4 DDT	Cancer	98.80%	N/C
thylbenzene	Liver, kidney, nervous system damage	99.53%	N/C
indane	Liver, kidney, nervous system damage	99.00%	92.00%
ITBE	Cancer	99.80%	96.40%
olychlorinated Biphenyls	Endocrine disrupter, cancer	94.50%	N/C
tyrene	Liver, kidney, nervous system damage	99.43%	N/C
1,2,2 Tetrachloroethane	Pending study	99.80%	N/C
oluene (Methylbenzene)	Liver, kidney, nervous system damage	99.80%	N/C
otal Xylene	Liver, kidney, lungs, mucous membrane	99.90%	N/C
rans 1,2 Dichloroethylene	Liver, kidney, circulatory, nervous system	99.80%	N/C
nichloroethylene (TCE)	Cancer	99.76%	N/C
inyl Chloride	Liver, immune system, nerve damage	99.80%	N/C
RIHALOMETHANES			
romodichloromethane	Muscle, nervous system damage, cancer	99.73%	N/C
romoform	Muscle, nervous system damage, cancer	99.46%	N/C
hloroform	Muscle, nervous system damage, cancer	99.50%	N/C
ibromochloromethane	Muscle, nervous system damage, cancer	99.46%	N/C
MICROBIOLOGICAL ORGANISMS* Standard or advanced filters only. Does not include Pure Water Straws.			
ryptosporidium	Gastro-enteric diseases	99.90%	99.90%
acteria/Virus	Gastro-enteric diseases	99.99%	N/C
iardia	Gastro-enteric diseases	99.99%	99.90%
IOrganics			
luminum	Respiratory, nervous system disorders	90.00%	N/C
rsenic	Skin, nervous system damage	89.90%	N/C
admium	Kidney damage	85.75%	95.00%
chromium	Liver, kidney, circulatory system disorders	93.72%	N/C
opper	Gastro-enteric diseases	98.50%	93.00%
luoride	Unknown	65.00%	N/C
ead	Kidney, nervous system, toxic to infants	99.00%	99.00%
lcury	Kidney, nervous system disorders	99.25%	93.80%
itrites & Nitrites	Spleen hemorrhage, diuresis, death	88.43%	N/C
ADIOLOGICAL			
adon 222	Cancer	99.00%	N/C

Information for the 3 water pitcher brands was compiled by Seychelle in February, 2011 from each company's web site. Criteria may not apply to current products manufactured by each company. *NC - No Claim

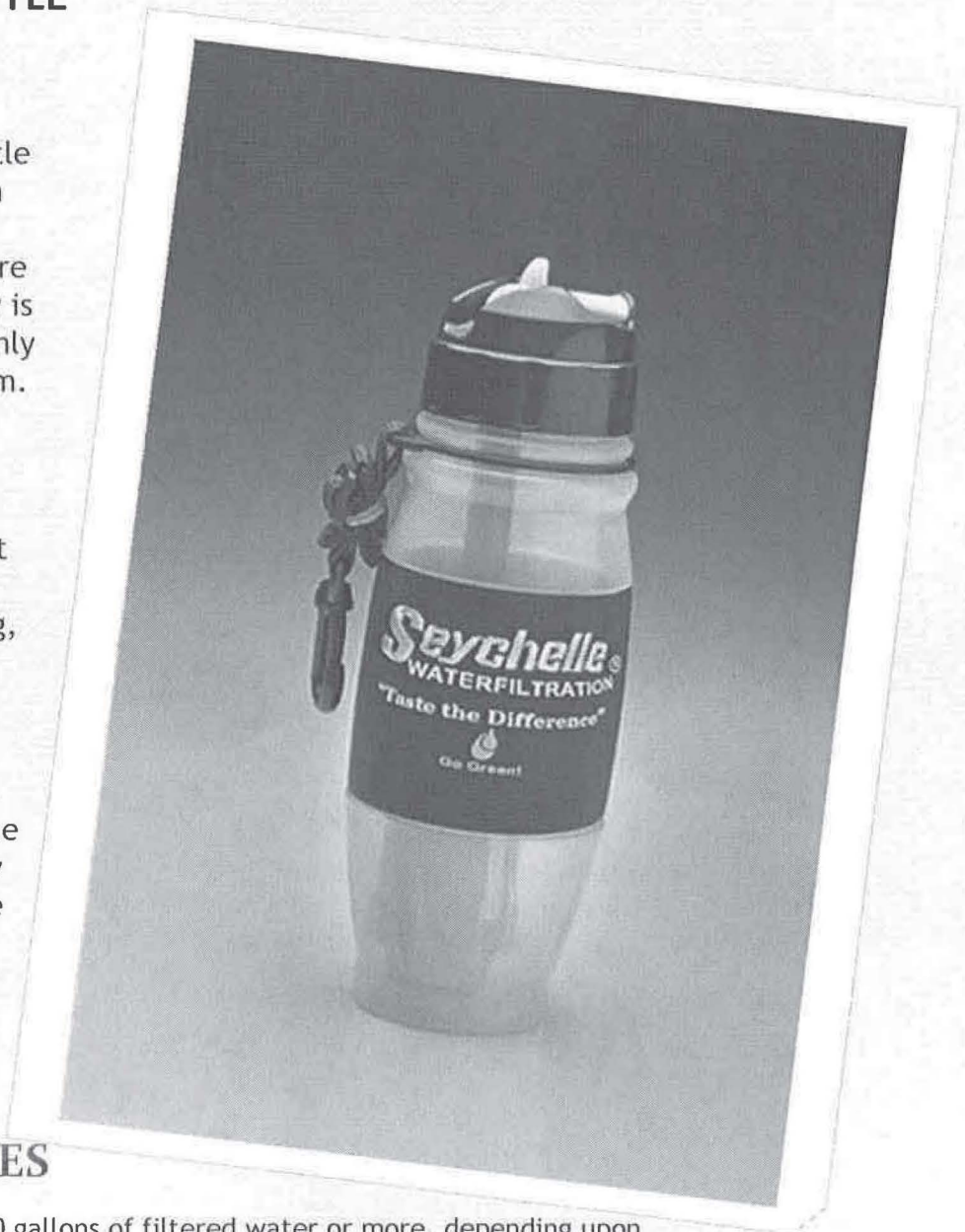


28oz FLIP TOP ADVANCED BOTTLE

The Seychelle 28oz Advanced Water Filtration flip top bottle is the perfect solution for those traveling to foreign countries where drinking water quality is unknown, unsafe or only available at a premium.

The insulator sleeve attaches to a belt or backpack, and is great for any outdoor use: walking, hiking, biking, travel, camping or emergency preparedness!

For the over 75% of the water consumed away from home, this is the perfect portable product!



KEY FEATURES

- Produces up to 100 gallons of filtered water or more, depending upon the quality of the source water.
- **Advanced filter removes up to 99.9999% of bacteria and virus,** in addition to up to 99.99% of chlorine, chemicals and heavy metals.
- 28oz size is compact, light weight and easy to use! Easy to fill!
- Also available with our Standard, Radiological or pH Enhanced filtration.
- Reusable - made of FDA approved low density polyethylene #4 plastic, does not leach! BPA free! Environmentally safe! Does not pollute the countryside!



FAMILY WATER PITCHER

The Seychelle Pure Water Pitcher is the most technologically advanced product of its kind.

Providing up to 150 gallons of great-tasting filtered water per filter pack (depending on the quality of source water).

The pitcher uses the regular Seychelle filter which removes up to 99.99% of harmful contaminants, chlorine, fluoride, chemicals (VOCs), arsenic, heavy metals and Radon 222. Designed to be used with chlorinated municipal water, is a great replacement for bottled water.

**IDEAL FOR
DAILY USE**

At home
In an R.V.
Camping
Boating
Traveling.



Streamlined, it fits easily into most refrigerators.

KEY FEATURES

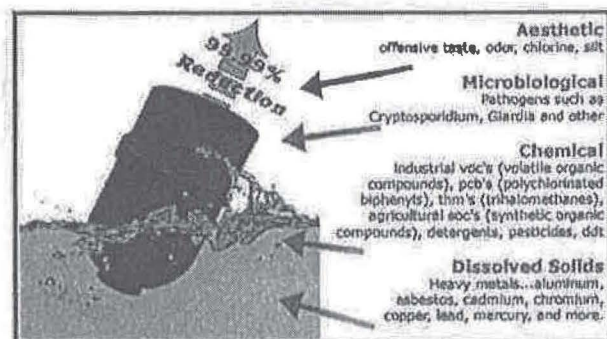
- Removed up to 99.99% of contaminants found in drinking water.
- Plastic is non-leaching; BPA free! Fits easily into most refrigerators.
- Available with our Regular or Standard Filter.
- Makes up to 150 gallons of water before changing filters. Filter pack is easily changes as needed (approx. every 6 months depending on quality of source water.)
- Carafe holds up to one gallon of filtered water; reservoir filters one half gallon at a time.
- Use all day long for - drinking, cooking, watering plants, and hydrating pets.

Seychelle Water Filtering Technology

Ionic Adsorption Micro Filtration

The only personal water filtration system capable of up to 99.99% reduction in all four areas of contamination!

- Aesthetic
- Microbiological
- Chemical
- Dissolved Solids



How It Works

Through medical technology Seychelle created a uniform 2-micron absolute pore size for the assured reduction and removal of the above contaminants. The high-tech porous plastic micro-filter is impregnated with both the finest granulated activated coconut Carbon available and Seychelle's exclusive adsorbing media for superior analyte removal capability.

In addition, the controlled 2-micron filter contains thousands of Omni-directional pores that result in a "tortuous path" for superior analyte reduction.

Seychelle's exclusive Ionic Adsorption Micro Filtration coordinates all processes of contaminant reduction by Adsorption, Absorption, chemical bonding, chelation, and depth filtration,

All Seychelle filters, from the smallest to the largest are the most field-tested of their kind in the world using EPA/ANSI protocols and NSF Standards 42 and 53 by Broward Testing Laboratories.

The Educated Alternative

"We are effectively and positively providing the solution to the public's concerns by taking water filtration to a whole new level of sophistication... via technological advancements and unsurpassed performance. The independent lab tests prove beyond a doubt that we have a product line to be trusted." - Carl Palmer is the Founder, President, and Chairman of the Board.

The A,B,C,D and R of Water Contamination

What makes the SEYCHELLE ENVIRONMENTAL TECHNOLOGIES Ionic Adsorption Micro Filtration System the BEST? The primary reason our filters perform better than other filtration systems is that each product is designed *to guarantee the greatest amount of reduction per contaminant.*

The Micro-Porous body of the filter contains thousands of interconnected omni-directional pores, each being a uniform 2 micron in size. In addition to pore size control, our micro-porous filters have 3 proprietary media impregnated within that are coordinated carefully for the reduction of potentially harmful contaminants. The mechanical filtration is superior in efficacy in the removal of what is referred to as the "A, B, C, D and R" of water contamination:

- Aesthetic – unpleasant taste and odors, cloudiness, silt, sediment, chlorine and chlorine by products.
- Biological – harmful microscopic pathogens such as Cryptosporidium, Giardia, E-Coli and other cysts and spores.
- Chemical – toxic chemicals (VOCs), Trihalomethanes, PCBs PCEs, detergents, and pesticides.
- Dissolved solids – including heavy metals such as aluminum, asbestos, fluoride, cadmium, chromium 6, copper, lead, arsenic and mercury.
- Radiological – Radon 222, radium, uranium, cesium 134 and cesium 137.

Seychelle's exclusive Ionic Adsorption Micro Filtration combines the different concepts of filtration including adsorption, absorption, chemical bonding and chelation. It reduces specifically all areas of contamination through the exclusive design and impregnation of proprietary media with outstanding filtration capabilities.

Seychelle - The most trusted name in water filtration

Frequently Asked Questions

Are Seychelle filters recyclable?

Yes, Please send dried out filters to Seychelle and we will recycle them.

Our address is: Seychelle Water Filtration Products Attention: Customer Care, 32963 Calle Perfecto, San Juan Capistrano, CA 92675.

Do Seychelle Filters Take Out Minerals?

No, our filters are designed to take out only harmful contaminants, micro-organisms and heavy metals; and leave in the good-for-you trace minerals such as salt, potassium, phosphorous, calcium and magnesium.

Do Seychelle Filters Remove Fluoride?

Yes - up to 90%!

What makes the SEYCHELLE ENVIRONMENTAL TECHNOLOGIES Ionic-Adsorption Micro-Filtration System the BEST?

The primary reason our filters perform better than other filtration systems is that each product is designed to *guarantee the greatest amount of reduction per contaminant*. You can read more about the removal of contaminants at "A, B, C, D and R" of Water Contamination ([/abcd-and-r-of-water-contamination.html](#)).

Why are the Seychelle Portable Water Filtration Systems better than bottled water?

Three basic reasons:

- First - The US EPA, NSF and ANSI Certified Testing Results of our filters assure you consistent quality, great-tasting water each and every time. Our water filtration systems are the most laboratory and field tested products of their kind in the world. Efficacy and quality are guaranteed and on record. Many bottled waters, especially in developing countries, are not guaranteed and actual water sources unspecified.
- Second - the Seychelle portable water filtration bottle is affordable, efficient, cost effective and can be filled from any convenient water source anywhere, anytime except salt.
- Third - the Seychelle system produces up to 100 gallons of great-tasting filtered water; equal to 757 half liters of bottled water at a fraction of the cost!

Will the Ionic-Adsorption Micro-Filtration System wear out?

The filter will not wear out, per se. However, the maximum filtering capability gradually diminishes and when the water flow is too low, it's time to replace the system. This is basically a function of the quality of the source water you want to filter.

Who performs the tests for the filters efficacy and for what elements specifically?

In the United States, water filtration products are tested by independent laboratories to verify the exact capabilities and performance. All Seychelle filters are extensively tested by only the highest quality US approved laboratories certified to test under the strictest EPA protocols. The gallon volume of filtration capacity is tested to NSF/ANSI Standards 42 & 53 by Broward Testing laboratories. In addition, Seychelle filters have been tested in sixteen (16) foreign countries.

All five areas of contamination "A,B,C,D and R" are tested. See Laboratory Test (</lab-tests.html>) results for exact percentage reduction.

Is there a problem with activated carbon filters harboring or breeding bacteria or other contaminants within the filter itself?

Bacteria can grow on anything, but the key to this product concept is to periodically clean the filter. Most consumers use a Granulated Activated Carbon (GAC) filter element in a manner that the systems are either attached to the faucet or permanently installed under the sink counter. The major problem is that the water is allowed to collect after use, and this is when bacteria grows or multiplies. Bacteria will grow most effectively in a dark, moist atmosphere, especially if there is no disinfectant in the remaining water. The main reason for the bacteria build-up is that filters cannot sanitize themselves automatically. With our bottle products, simply flush with a 1/8 teaspoon of chlorine in one quart of water through the system and then rinse and flush with filtered water.

Seychelle has not received one report of bacterial growth on one of its filters since its introduction sixteen (16) years ago.

How is the filter capacity formula determined?

Seychelle performs continuous flow tests. For chlorine removal, the testing laboratories run the filters with heavily spiked water for over 400 gallons without any break-through of residual chlorine or other surrogates used. Overall filter capacity varies by product as follows:

Water pitchers: up to 150 gallons

Stainless steel bottles: up to 100 gallons

LDPE plastic bottles: up to 100 gallons

Pumps and bags: up to 100 gallons

Pure water straws: up to 25 gallons

Are the filter systems pre-flushed?

All filter systems are pre-flushed at the factory. Please refer to product manuals for exact instructions for each product in our line.

Does the filter ever need cleaning?

No. Do not use soap or cleaner on the filter as you may damage it and plug up the microscopic pore openings which will cause it to not work.

What is the filter life expectancy?

For most products about one year. The time to change the filter is when you are no longer satisfied with the rate of flow.

Maintenance and storage

- DO NOT place the bottle in the freezer. (When water freezes it expands and could damage the bottle and/or filter);
- DO NOT fill with HOT water, or anything other than WATER;
- DO NOT run the bottle through the dishwasher.

When the filter system will not be used for an extended period, simply flush with a 1/2 teaspoon of chlorine in one US gallon of water through the system. Flush with filtered water and allow to dry thoroughly with top cap removed. Reassemble and stow.

Are your products safe and BPA free?

All Seychelle products are BPA free; are non-toxic and do not leach; and use only FDA approved #4 and #5 plastics and food grade materials; or #304 stainless steel.

Who buys and uses Seychelle products?

- Those concerned about the taste, odor and quality of their drinking water,

20oz SPORTS BOTTLE

The Seychelle 20oz Sports Bottle is the perfect bottled water replacement.

This filter system is ideal for everyday use; walking, hiking, biking, even driving a car!

Just pull up on the pull top cap, hold the bottle vertical; squeeze and draw the filtered water into your mouth.

For the over 75% of the water consumed away from home, this is the perfect portable product!

Seychelle
water filtration



KEY FEATURES

- Produces up to 100 gallons of filtered water or more, depending upon the quality of the source water.
- Available with our Regular Filter which removes up to 99.99% of chlorine, chemicals and heavy metals.
- Reusable - made of FDA approved low density polyethylene BPA plastic, does not leach!
- BPA free! Environmentally safe! Does not pollute the countryside!
- 20oz size is compact, light weight and easy to use!
- Has a screw on top "pull top" cap for easy filling.
- Filter is replaceable.
- Interactive insulator sleeve and convenient carrying handle.

28oz FLIP TOP ADVANCED BOTTLE

The Seychelle 28oz Advanced Water Filtration flip top bottle is the perfect solution for those traveling to foreign countries where drinking water quality is unknown, unsafe or only available at a premium.

The insulator sleeve attaches to a belt or backpack, and is great for any outdoor use: walking, hiking, biking, travel, camping or emergency preparedness!

For the over 75% of the water consumed away from home, this is the perfect portable product!

Seychelle
water filtration



KEY FEATURES

- Produces up to 100 gallons of filtered water or more, depending upon the quality of the source water.
- Advanced filter removes up to 99.9999% of bacteria and virus.
- In addition to up to 99.99% of chlorine, chemicals and heavy metals, 28oz size is compact, light weight and easy to use! Easy to fill!
- Also available with our Standard, Biological or pH Enhanced filtration.
- Reusable - made of FDA approved low density polyethylene BPA plastic, does not leach!
- BPA free! Environmentally safe! Does not pollute the countryside!

Seychelle
water filtration



Emergency Preparedness Products



28oz Flip Top Advanced Filtered Water Bottle

The 28oz Flip Top ADVANCED Bottle provides great tasting, fresh water wherever you are. It is the perfect solution for those traveling to foreign countries where safe drinking water is at a premium. The bottle produces up to 100 gallons of great-tasting water. Removes up to 99.99% of chlorine, chemicals and heavy metals. Removes up to 99.9999% of bacteria and virus.



Pure Advanced Water Bag

The Pure Water Bag is the perfect product when you need a continuous volume of water. It holds 2 gallons of source water, and makes great-tasting drinking water all day long. Removes bacteria and virus to six logs (99.9999%). It can be used in extreme conditions; turbid and stagnant water; and is ideal for emergencies, natural disasters, and nuclear occurrence. Removes up to 90% of Fluoride.



Pure Advanced Water Pump

The Pure Water Pump is ideal for pumping filtered water from any reservoir. It's great for every day use; camping, travel or emergency use. Removes/reduces organics and in-organics such as DDT, PCBs, THMs, Lead, Copper, Mercury, Arsenic and Chromium 6 as well as pathogens such as Giardia, Cryptosporidium and E-Coli Bacteria.



Rad/Adv Survival Canteen Kit

The Emergency Canteen Kit is the perfect compact personal preparedness tool to ensure you have a fighting chance in the case of an emergency. The 42oz Canteen with a Seychelle RAD/ADVANCED Filter provides up to 150 gallons of safe drinking water. The filter removes and reduces the five major zones of contamination. The canteen contains 13 items that are indispensable for travel, and in the case of an emergency or disaster. The canteen carry pouch is a vivid fluorescent green to assist in drawing attention for rescue.

All Seychelle filters are the most field-tested of their kind in the world using EPA/ANSI protocols and NSF Standards 42 and 53 by Broward Testing Laboratories.

Seychelle Environmental Technologies, Inc.
32963 Calle Perfecto San Juan Capistrano, CA
92675 info@seychelle.com 949-234-1999



Seychelle Environmental Technologies, Inc. dedicated to improving the quality of life through the quality of our drinking water.



20oz ADVANCED RADIOLOGICAL SPORTS BOTTLE

Removes up to 99.99% of Radiological Contaminants
And up to 99.9999% of Bacteria and Virus

Great-Tasting Filtered Water

This filter system is ideal for any indoor or outdoor use; like traveling, hiking, biking, camping, fishing or for emergency purposes. It can be used with any type of water source; tap or rainwater, rivers, streams or even lakes (excluding salt water).

- Removes up to **99.99%** (see lab tests at www.Seychelle.com) of contaminants and pollutants found in tap water supplies, including:
- **Aesthetics** such as Chlorine, sediment and dirt
- **Chemicals** (VOC's) such as DDT, MTBE, Benzene, Chloroforms (THM's)
- **Dissolved Solids** (Heavy Metals) such as Arsenic, Lead, Mercury, Fluoride, Copper, Zinc, Aluminum and Chromium 6
- **Radiologicals** such as Radium 226, Uranium, Plutonium, Cesium 137, Radon and Radioactive Iodine
- **Biologicals** such as Giardia and Cryptosporidium, plus 99.9999% removal of Bacteria and Virus!

KEY FEATURES

- BPA free and FDA approved materials!
- Up to 100 gallon filter life!
- Replaces 757 half-liters of bottled water!
- Compact, easy to use anytime - anywhere!



- Bottles are re-useable, filters are replaceable!

Filters made in USA!



Over 5.000.000 filters sold worldwide!

Bottle and Filter Competition

6-12-14

Overall Market

In the US, the pure water market is about \$20 billion and growing at about 5% per year. Of that market, \$16 billion is in water bottles (mostly ½ liters) and \$200 million in outdoor filter products for campers, hikers, survivalists, backpackers, etc.

Let's talk about the two main markets:

Drinking Water Market

This category was created in 2008-2009 by Clorox (Brita), Bobble and Rubbermaid so that retailers would have an alternative to their declining bottle water sales because of the recession – consumers cut back on bottled water up to 30%.

Bobble, Britta and Rubbermaid were the main entries. Their goal was to come out with a filter system at \$10.00 retail, which means they had to make the product for 75 cents. Britta and Rubbermaid came to us to buy millions of our filters recognizing that we had the best ones – but didn't want to pay anything for them, so we passed.

So, they elected to ***offer the consumer basically nothing*** – what we call in the trade CTO – a filter that removes chlorine and improves taste and odor. You can make a very porous filter like that for 15 cents. They put them in simple, inexpensive packaging, and got distribution in many accounts.

1. **Bobble** - Bottle retail at up to \$12.99: Replacement filter at \$6.99 - good for 300 bottle fills (2 months est. Usage). Offers the removal of "some chlorine" only – but don't tell you how much. Most filters last only to 20 gallons before they need replacement.
2. **Britta** - Bottle retails for about \$9.99 Replacement filter at \$7.99 - good for 300 bottle fills (2 Months est. Usage) Offers great-tasting filtered water but removes hardly anything but some chlorine, but they don't tell you how much. Filters last for about 25 to 30 gallons.
3. **Rubbermaid**: Bottle retails around \$9.99 Replacement filter at \$7.99 - good for 300 bottle fills (2 Months est. Usage) the poorest looking of the three – has virtually no distribution, removes some chlorine.
4. **Seychelle**: 20oz "sports bottle" bottle could retail for as low as \$12.95 depending upon the retailer and has these key features:
 - Removes 99.99% of ***chlorine***, improves taste and odor.
 - Removes up to 99.99% of ***chemicals***, ***VOC's*** and ***heavy metals*** such as DDT, benzene, fungicides, insecticides, pesticides, THM's, lead, mercury, fluoride, arsenic, chromium 6 and copper.

- The RAD filter can remove up to 99.99% of **radiological contaminants** such as Cesium 134 & 137, plutonium, radium and uranium.
- For overseas markets, certain filters can enhance **pH (alkalinity)** up to 9.0.
- With the advanced filter, it removes up to 99.9% of giardia and crypto; 99.9999% of bacteria and virus.

Note: Retail price would vary based upon features selected; some features may not be available in some markets due to existing customer agreements.

There is no portable water filtration system in the world that can match Seychelle, and we have over 300 independent laboratory tests to prove our claims!

Outdoor Market

This market has been around for 50 years, and Katadyn has been a leader, mostly in Europe, for a long time. Sawyer and Katadyn are the leading outdoor competitors for Seychelle.

1. **Sawyer:** Bottles retail for up to \$79.95

Removes virus and bacteria. Does not remove chemicals, VOC's and heavy metals. **Expensive.** Uses hollow fiber technology that **fouls easily in turbid water**. Hollow fiber is like thin strands of plastic spaghetti with microscopic openings in them – that filter out pathogens but let through anything smaller; thus they can pass through chemicals, VOC's and heavy metals that are smaller than the openings.

2. **Katadyn:** Bottles retail up to \$115.00

Ceramic filtration is 50 year old technology. **Expensive** – does not remove chemicals, VOC's and heavy metals unless they add a carbon filter – which increases price. Ceramic filters wear out fast, and plug easily in turbid water. They easily break when dropped.

3. **Seychelle:** Bottles retail up to \$32.95.

Our filters remove contaminants by absorption and adsorption – so, simply stated, think of the contaminants as ball bearings and nails – and the filter as a magnet; the filter holds on to them and chemically bonds them to the filter walls. Thus, only pure filtered water passes on to the user. We have sold over 5 million around the world to missionaries, militaries, hikers, back packers, dealers, distributors and retailers in 30 countries. **Because of our filter technology, we offer a lower price than competition and performance unsurpassed in the industry:**

We know of no other filter in the world that compares with the performance of the Seychelle filter.

Seychelle – the most trusted name in portable water filtration!

Silfven, Ken (TIA)

From: Silfven, Ken
Sent: Thursday, October 15, 2015 8:48 AM
To: Robinson, Lynda (LARA); Comai, Stephanie (LARA); Ferrick, Karyn (LARA)
Subject: Fwd: Media Permission for Flint Water Donation

Thx Lynda. I'm good with it but just looping in others because this whole thing is been so sensitive.
Ken

Sent from my iPad

Begin forwarded message:

From: "Robinson, Lynda (LARA)" <RobinsonL7@michigan.gov>
Date: October 15, 2015 at 8:13:57 AM EDT
To: "Silfven, Ken" <SilfvenK@michigan.gov>
Subject: FW: Media Permission for Flint Water Donation

Hi Ken,
Just want to make sure you have no objection to this. I will let them know that they shouldn't talk about anything other than this project.

From: Moffett-Massey, Sharon (UIA)
Sent: Wednesday, October 14, 2015 10:00 PM
To: Alvarado, Heriberto (UIA); Robinson, Lynda (LARA)
Subject: Re: Media Permission for Flint Water Donation

I'm looping in Lynda, Lynda I'm in support but want to ensure what is listed or stated is accurate.

Thanks,

SAMM

On Oct 14, 2015, at 4:42 PM, "Alvarado, Heriberto (UIA)" <AlvaradoH@michigan.gov> wrote:

Hello Samm

The LALO committee at the Lansing RICC reached out to the City of Flint regarding their need. They are requesting to recognize UIA regarding their efforts.

Can we give permission to allow their acknowledgment?
Thank you Samm

Sent from my iPhone

Begin forwarded message:

From: "Miller, Kimberly (UIA)" <millerk36@michigan.gov>
Date: October 14, 2015 at 4:36:02 PM EDT
To: "Alvarado, Heriberto (UIA)" <AlvaradoH@michigan.gov>

Cc: "Miller, Kimberly (UIA)" <millerk36@michigan.gov>
Subject: FW: Media Permission for Flint Water Donation

HI Ed.

Here is the Flint Water Donation made by the Lansing UIA staff email. Please review and let me know how you'd like us to proceed.

Thank-you,

Kimberly Miller
Operations Director Lansing RICC
Desk: 517-335-0655
Cell: 517-388-5438

<image001.jpg>

CONFIDENTIALITY NOTICE: This message (including any attachments) contains confidential information intended for a specific individual and purpose, and is protected by law. If you are not the intended recipient, you should, delete this message and are hereby notified that any disclosure, copying, or distribution of the message or the taking of any action based on it is strictly prohibited.

From: Balla, Susan (UIA)
Sent: Wednesday, October 14, 2015 2:08 PM
To: Miller, Kimberly (UIA)
Cc: Walkington, Cindy (UIA)
Subject: Media Permission

I contacted Eric Mays, 1st Ward City Councilman in Flint Michigan, in regards to where is the greatest need for the bottle water. He stated the greatest need was the Senior Center – Slidell.

He wants to know if we want to be recognized by the media? If so, he will have the media give Lansing RICC credit for the water donation. I told him I would need to get permission and get back with him.

Can you please forward to see if we have permission for the Media to give us recognition of the water donation?

Kindest Regards,

Susan Balla

An Update on Flint's Water

Congressman Dan Kildee <MI05DKima@mail.house.gov>

Mon 10/5/2015 6:50 PM

To: Blaha, Daniel (WDA) <BlahaD@michigan.gov>;

[Click here to open this e-mail in its own browser window](#) [Click here to open a plain text version of this email](#)

News from Representative Kildee

[Click here to open this e-mail in its own browser window](#) [Click here to open a plain text version of this email](#)

Dear Dan,

I am writing to make sure you are aware of a Genesee County Health Department [health advisory](#) that has been issued for people drinking water in the city of Flint, including steps you can take to get your water tested and limit your exposure.

Tests have shown that water in Flint contains high levels of lead. According to the [Centers for Disease Control](#), lead is a serious toxin that impacts every organ in the body, including the brain. While both children and adults are vulnerable to lead health effects, children under age six and pregnant mothers are most at risk.

Flint residents are encouraged to get their water tested if they are concerned about lead contamination. Residents can get their water tested for lead by visiting the city of Flint website at www.cityofflint.com or by contacting the Flint Water Department at 810-787-6537.

If you are concerned that you or your children have been exposed to lead, please immediately contact your family physician or the [Genesee County Health Department](#) at 810-257-3833. Children six and under are eligible for [free lead tests](#) at the Genesee County Health Department, including without health insurance.

Flint residents can filter their tap water by obtaining a lead-clearing filter certified to meet [National Sanitation Foundation \(NSF\) Standard 53](#) for lead. For more information, the Genesee County Health Department has set up a filter distribution hotline at 810-257-2158.

The Genesee County Health Department has issued the following [tips](#) about how to limit your exposure to lead in your water. For more information on understanding the health defects that can result from lead contamination and ways to limit its effects on you and your family, [please read the brochure here](#). However, a selection of their suggestions is included below.

From the [Genesee County Health Department](#): What can I do to reduce or eliminate lead in my tap water?

- *Flush your cold-water pipes by running the water for approximately 5 minutes. The longer the water has been sitting in the pipes, the more lead it may contain.*
- *You can fill containers for later use, after the flushing process.*

- *Use only water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels because it dissolves more lead.*
- *You may choose to install a water filter that is NSF-certified for lead removal.*
- *If a water filter is installed, replace filters at least as often as recommended by the manufacturer.*
- *Buy a lead-free faucet.*
- *The legal definition of "lead-free" still allows brass faucets to contain up to 8 percent lead. However, faucets marked with "NSF 61/9" and/or "California Proposition 65" meet stricter limits.*
- *Regularly clean particles from faucet aerators.*

Sincerely,

Dan Kildee

Washington D.C. Office
227 Cannon HOB
Washington, DC 20515
Phone: (202) 225-3611
Hours: 9:00 a.m. - 6:00 p.m.

District Office
111 East Court St. #3B
Flint, MI 48502
Phone: (810) 238-8627
Hours: 9:00 a.m. - 5:00 p.m.

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[\$\$\$Survey.2100160\$\$\$]

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Mon 10/5/2015 6:50 PM

To: Blaha, Daniel (WDA) <BlahaD@michigan.gov>;

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- *If a water filter is installed, replace filters at least as often as recommended by the manufacturer.*
- *Buy a lead-free faucet.*
- *The legal definition of "lead-free" still allows brass faucets to contain up to 8 percent lead. However, faucets marked with "NSF 61/9" and/or "California Proposition 65" meet stricter limits.*
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Sincerely,

Dan Kildee

Washington D.C. Office
227 Cannon HOB
Washington, DC 20515
Phone: (202) 225-3611
Hours: 9:00 a.m. - 6:00 p.m.

District Office
111 East Court St. #3B
Flint, MI 48502
Phone: (810) 238-8627
Hours: 9:00 a.m. - 5:00 p.m.

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[\$\$\$Survey.2100160\$\$\$]

VA History - TIMELINE

U.S. Veteran Compensation Programs <admin@veteranprograms.com>

Sun 9/27/2015 12:24 PM

To: Blaha, Daniel (WDA) <BlahaD@michigan.gov>;

Hi, just a reminder that you're receiving this email because you have expressed an interest in USVCP . Don't forget to add admin@veteranprograms.com to your address book so we'll be sure to land in your inbox!

You may [unsubscribe](#) if you no longer wish to receive our emails.



QUICK LINKS

[Overlooked Disabilities](#)

[AO Missions](#)

[USVCP Store](#)

[Agent Orange News](#)

Dear Daniel,

1789 - The new U.S. government passes legislation ensuring pensions for disabled Revolutionary War veterans.

1812 - The Naval Home, a facility for disabled veterans, opens in Philadelphia.

1833 - Congress establishes the Bureau of Pensions to assist veterans.

<u>Child ID Card</u>	1862 - During the Civil War, Congress passes a bill allowing the president to purchase land for national cemeteries.
<u>SMC Rates</u>	Between 1865 and 1870, 70 national cemeteries open for burial of Union soldiers.
<u>Asbestos Compensation</u>	1865 - At the end of the U.S Civil War, there are 1.9 million Union veterans. Congress authorizes the National Asylum of Disabled Volunteer Soldiers, a system of residences for disabled and indigent <u>veterans</u> .
<u>2015 Comp Rates</u>	
<u>Vet Centers</u>	1912 - Congress passes the Sherwood Act, guaranteeing pensions for Union <u>veterans</u> of the Civil War and veterans of the Mexican-American War, regardless of their health.
<u>PSAS Changes</u>	
<u>Catastrophic Pay</u>	1924 - Congress passes the World War Adjustment Compensation Act, a system of bonuses for <u>veterans</u> of World War I. Any <u>veteran</u> entitled to more than \$50 is given a certificate payable 20 years in the future and worth about \$1,500.
<u>Veteran Grants</u>	
<u>SSA Benefits</u>	
<u>Veteran ID Card</u>	July 21, 1930 - President Herbert Hoover signs an executive order consolidating the Veterans' Bureau, the Bureau of Pensions and the National Homes for Disabled Volunteer Soldiers into the <u>Veterans Administration</u> . The <u>VA</u> has a budget of \$786 million and serves 4.6 million veterans.
<u>Compensation Tips</u>	
<u>STD Compensation</u>	
<u>Reunion Locator</u>	1931-1941 - The <u>VA</u> builds 27 new hospitals, bringing the total to 91.
<u>New Disabilities</u>	
<u>Jobs for Vets</u>	1932 - During the Great Depression, thousands of World War I <u>veterans</u> march on Washington, DC, to demand payment of their bonuses. After the marchers are forcibly removed, the VA pays their transportation costs home. Congress authorizes early payment of the bonuses in 1936.
<u>Adapted Housing Grant</u>	
<u>Permanent Disability</u>	
<u>Exposure Confirmed</u>	1933 - The <u>VA</u> establishes the Board of Veterans' Appeals.
	June 22, 1944 - During World War II, President Franklin Roosevelt signs into law the Servicemen's Readjustment Act, also known as the "G.I. Bill of Rights," a package of

education benefits, federally guaranteed loans, and unemployment compensation.

1945 - At the end of World War II, there are approximately 15 million veterans in the United States, and all 97 VA hospitals are filled to capacity. In response, the VA opens 54 new hospitals over the next five years.

1958 - Congress pardons Confederate service members and extends benefits to the one remaining survivor.

1973 - The VA takes over the administration of the National Cemetery System, with the exception of Arlington National Cemetery and the Soldier's Home National Cemetery.

1979 - Congress orders the VA to study the effects on veterans of the Agent Orange defoliant used in Vietnam.

1983 - The Agent Orange study is transferred to the Centers for Disease Control.

1984 - President Ronald Reagan signs a bill requiring the VA to pay benefits to Vietnam veterans suffering from chloracne or porphyria cutanea tarda, possibly caused by Agent Orange exposure.

1988 - The U.S. Court of Appeals for Veterans Claims is founded. It gives those who served in the military a chance to challenge individual decisions made by the Department of Veterans Affairs.

March 15, 1989 - President Reagan signs legislation elevating the Veterans Administration to Cabinet status, and renaming it the Department of Veterans Affairs.

1991 - President George H.W. Bush signs into law a bill compensating Vietnam veterans exposed to Agent Orange and suffering from non-Hodgkins' lymphoma or soft tissue sarcoma .

March 1991 - The VA orders Veterans Affairs Medical Center, in North Chicago, to stop performing vascular and orthopedic surgeries after the deaths of more than 40 patients in 1989 and 1990. After a review of the cases, the VA accepts responsibility for the deaths of eight patients.

1996 - President Bill Clinton orders the VA to provide benefits to Vietnam Veterans who develop prostate cancer or peripheral neuropathy after a National Academy of Sciences suggests there is a link between those diseases and Agent Orange exposure.

2006 - Two teens steal a laptop computer and external hard drive containing the personal information of approximately 26 million veterans from the home of a VA data analyst. The laptop and hard drive are later recovered and FBI testing suggests that the data was never accessed. In 2009, the VA pays \$20 million to settle a class action lawsuit brought by veterans.

February 2009 - The VA notifies more than 6,000 patients who went to Alvin C. York VA Medical Center in Murfreesboro, Tennessee, that they may have been exposed to infectious diseases at the clinic due to contaminated endoscopic equipment.

February 2009 - The Charlie Norwood VA Medical Center in Augusta, Georgia, notifies more than 1,200 people that they may have been treated with contaminated equipment.

March 2009 - The VA sends letters to more than 3,000 people who may have had colonoscopies at VA facilities in Miami, warning that they may have been exposed to hepatitis and HIV. According to hospital officials, a review of safety procedures found that tubing used in endoscope procedures was rinsed but not disinfected.

2010 - The VA notifies more than 1,800 veterans treated at the John Cochran VA hospital in St. Louis that they may

have been exposed to infectious diseases during dental procedures.

July 2010 - The VA unveils new regulations making it easier for men and women who served in the armed forces to receive benefits for post-traumatic stress disorder. Under the new rules a veteran only needs to demonstrate that he or she served in a war and performed a job during which events could have happened that could cause the disorder.

November 2010 - The VA announces that it will cover disability compensation for an additional three diseases linked to Agent Orange exposure among Vietnam veterans. They are hairy cell leukemia, Parkinson's disease and ischemic heart disease.

2011 - Nine Ohio veterans test positive for hepatitis after routine dental work at a VA clinic in Dayton, Ohio. A dentist at the VA medical center there acknowledged not washing his hands or even changing gloves between patients for 18 years.

February 2011-November 2012 - An outbreak of Legionnaires' Disease at VA facilities in Pennsylvania kills at least six veterans.

November 2013 - A CNN investigation shows that veterans are dying because of long waits and delayed care at U.S. veterans hospitals. The VA has confirmed six deaths tied to delays at the Williams Jennings Bryan Dorn Veterans Medical Center in Columbia, South Carolina.

January 30, 2014 - CNN reports that at least 19 veterans have died because of delays in simple medical screenings like colonoscopies or endoscopies, at various VA hospitals or clinics. This is according to an internal document from the U.S. Department of Veterans Affairs, obtained exclusively by CNN, that deals with patients diagnosed with cancer in 2010 and 2011.

April 2014 - Retired VA physician Dr. Sam Foote tells CNN that the Phoenix Veterans Affairs Health Care system maintained a secret list of patient appointments, designed to hide the fact that patients were waiting months to be seen. At least 40 patients died while waiting for appointments, according to Foote, though it is not clear they were all on secret lists.

May 9, 2014 - The scheduling scandal widens as a Cheyenne, Wyoming, VA employee is placed on administrative leave after an email surfaces in which the employee discusses "gaming the system a bit" to manipulate waiting times. The suspension comes a day after a scheduling clerk in San Antonio admitted to "cooking the books" to shorten apparent waiting times. Three days later, two employees in Durham, North Carolina, are placed on leave over similar allegations.

May 20, 2014 - The VA's Office of the Inspector General announces it is investigating 26 agency facilities for allegations of doctored waiting times.

May 28, 2014 - A preliminary report by the VA's inspector general indicates at least 1,700 veterans waiting to see a doctor were never scheduled for an appointment and were never placed on a wait list at the Veterans Affairs medical center in Phoenix.

May 30, 2014 - VA Secretary Eric Shinseki resigns.

June 9, 2014 - The Department of Veterans Affairs releases the results of an internal audit of hundreds of Veterans Affairs facilities. It reveals that 63,869 veterans enrolled in the VA health care system in the past 10 years have yet to be seen for an appointment.

June 23, 2014 - In a scathing letter and report sent to the White House, the U.S. Office of Special Counsel (OSC) expresses concern that the VA hasn't adequately addressed whistleblower complaints of wrongdoing. The

report also slams the VA's medical review agency, the Office of the Medical Inspector (OMI), for its refusal to admit that lapses in care have affected veterans' health.

June 24, 2014 - A report issued by Sen. Tom Coburn's office finds that more than 1,000 veterans may have died in the last decade because of malpractice or lack of care from VA medical centers.

June 24, 2014 - Pauline DeWenter, a scheduling clerk at the Phoenix VA, tells CNN that records of dead veterans were changed or physically altered, some even in recent weeks, to hide how many people died while waiting for care at the Phoenix VA hospital.

July 29, 2014 - The U.S. Senate confirms Robert McDonald as the new Veterans Affairs secretary.

July 31, 2014 - The Senate approves a \$16 billion bill to overhaul the Department of Veterans Affairs.

August 7, 2014 - President Obama signs into law the \$16 billion bill, providing money to build more VA medical facilities and hire more doctors and nurses.

August 26, 2014 - The VA office of the Inspector General releases a report on delays at the Phoenix VA health care system. The study looked at more than 3,000 cases and found that dozens of veterans had "clinically significant" delays in care, and six of them died. The report says investigators could not conclusively link their deaths to those delays.

September 17, 2014 - In a hearing before the House Committee on Veterans' Affairs, Acting Inspector General Richard Griffin reverses his opinion. Griffin says that long wait times at VA health care facilities in Phoenix did contribute to a number of veterans' deaths.

November 10, 2014 - VA Secretary Robert McDonald announces the VA has taken "disciplinary action" against

5,600 employees in the last year, and he said more firings will soon follow. Beyond sacking officials that don't meet the VA's values, McDonald says the reforms will include the establishment of a VA-wide customer service office to understand and respond to veteran needs, new partnerships with private organizations and other reorganizations to simplify the department's structure.

November 13, 2014 - The VA announces it has fired Terry Gerigk Wolf, the director of the Pittsburgh VA Healthcare System, for "conduct unbecoming of a senior executive and wasteful spending." An outbreak of Legionnaire's disease in 2011 and 2012 killed six veterans at the facility.

November 24, 2014 - Sharon Helman, the head of the Phoenix VA, is fired. She was put on administrative leave following a CNN interview in April, in which she denied the existence of a secret list used to cover up delays in patient care.

December 15, 2014 - The VA Inspector General releases a report that indicates a VA fact sheet contained misleading information, overstating the scope of its review of unresolved cases. The VA claimed that it reviewed cases dating back to 1999 but it only examined cases dating back to 2007, according to the report. The inspector general also questions how the VA resolved an issue with delayed appointments. The VA reported that it reduced the number of appointments delayed more than 90 days, from 2 million to 300,000, but did not provide paperwork detailing whether the appointments were canceled or if the patients received treatment, according to the inspector general.

March 10, 2015 - CNN reports that more than 1,600 veterans waited between 60 and 90 days for appointments at facilities operated by the VA Greater Los Angeles Healthcare System. About 400 veterans waited six months for an appointment, according to documents provided to

CNN. The average wait time, according to documents dated January 15, 2015, was 48 days.

September 2, 2015 - The VA Inspector General releases a review of alleged mismanagement at the VA's Health Eligibility Center. According to the review, more than 307,000 deceased veterans were listed as enrollees with pending VA applications. The inspector general calculated that about 35% of all pending records were for deceased veterans. CNN reports that many of the deceased veterans may have died while awaiting treatment.

Gray

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RE: Collaboration to host veteran healthcare information class

Blaha, Daniel (WDA)

Thu 5/30/2013 4:28 PM

To: 'Mirium Marks-McKeown' <mmckeown@unitedwaygenesee.org>;

Thanks for the quick response Mirium,
I looked over the pp. attachment briefly, I do my volunteer day Friday, and I will get back with you next week
Thanks

Daniel Blaha, LVER
Workforce Developement Agency
State of Michigan
711 N. Saginaw St.Suite 121
Flint, MI 48503
(810) 235-8903
Fax: (810) 235-8901
BlahaD@michigan.gov

From: Mirium Marks-McKeown [mailto:mmckeown@unitedwaygenesee.org]
Sent: Thursday, May 30, 2013 2:53 PM
To: Blaha, Daniel (WDA)
Cc: ameister@unitedwaygenesee.org
Subject: Collaboration to host veteran healthcare information class

Good afternoon Dan. It was a pleasure speaking with you. We discussed earlier today to collaborate in hosting a 2 day informational and benefit sign up class for Veteran Healthcare and MI Bridges benefits. My vision is to give the informational presentation on day 1 and allow the participants to sign up using the online 10-10EZ Form and sign up for *MyHealth*eVets on the first day. Day 2 is for the MI Bridges sign up and any veterans that didn't sign up on day one. A two day event gives the participants time to gather the necessary documents needed to apply. I have attached the Veteran Healthcare presentation for your viewing. I would like to set up a time when we can meet to further discuss ideas. I look forward to hearing from you.

Thank you-

Miriam Marks-McKeown
AmeriCorps Veteran Benefit Resource Liaison
United Way Genesee County

mmckeown@unitedwaygeneseesee.org

810-624-5645 (office)

810-232-9370(Fax)

P.O. Box 949

501 Citizens Bank Building

328 S. Saginaw Street

Flint, MI 48501



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The DOL Newsletter - June 20, 2013: Safety in the Grain Industry; STEM Solutions; Women Veterans Initiative

US United States Department of Labor <subscriptions@subscriptions.dol.gov>

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To: Warner, Douglas (WDA);

Thu 6/20/2013 10:46 PM

WDA

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UNITED STATES
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Good jobs for everyone.

DOL News Brief

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June 20, 2013



WINNER OF 2013 AVA DIGITAL GOLD AWARD & NACG AWARD OF EXCELLENCE

Building a Peacetime Economy



It had been more than a decade with a single individual in the top office at the Labor Department (Frances Perkins) when Lewis B. Schwellenbach became the fifth Secretary of Labor under President Harry S. Truman on July 1,

1945. The transition came at a tumultuous time. President Franklin D. Roosevelt had died in office some three months earlier, less than a month before the Allied victory in Europe, followed soon after by the resignation of the stalwart Perkins. Victory in the Pacific would not be achieved until September, but the major priority of Schwellenbach's term was already clear: ensuring the maximum employment of the fighting men returning home from World War II and the promotion of a vigorous peacetime economy. A former U.S. senator and federal judge from Washington state, Secretary Schwellenbach oversaw the abolishment of wartime wage-and-price controls

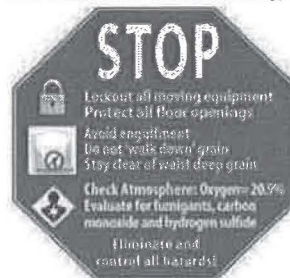
and a rash of strikes that prompted Congress to overrule a presidential veto and pass the Taft-Hartley Act. Schwellenbach also heightened the department's international presence with the establishment of the Office of International Labor Affairs in 1947. He holds the sad distinction of being the only labor secretary to die while in office. After battling a series of illnesses that had forced him to leave Washington, D.C., before being summoned back by Truman, Schwellenbach died at Walter Reed Hospital on June 10, 1948.

• [Learn About the Department's Postwar History](#)
 • [View the Centennial Timeline](#)
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What's New

With Lives at Risk in Grain Industry, OSHA Launches Safety Initiative



It takes just seconds for a worker to become engulfed in flowing grain, unable to escape. More than half of all grain engulfments result in death by suffocation. That's why the Occupational Safety and Health Administration, working with agricultural and grain handling alliances and organizations, has initiated a safety campaign to educate employers and workers on the dangers that result in numerous injuries and deaths each year. "OSHA is working hard to change the 'It won't

happen to me' mindset," said Nick Walters, OSHA regional administrator for six Midwestern states. OSHA developed a Local Emphasis Program for Grain Handling Facilities in 2010, following the deaths of more than 26 workers. The emphasis program focuses on the grain and feed industry's six major hazards, including engulfment, falls, auger entanglement, struck by, combustible dust explosions and electrocution.

• [Read the News Releases: Wisconsin, Ohio, Kansas, Nebraska, Missouri](#)
 • [Read More About Grain Handling Safety](#)
 • [Download the Grain Handling Safety Poster](#)

STEM Connections on Display in Austin

Innovative approaches to improve science, technology, engineering and mathematics career skills was the hot topic for educators, employers and workforce development pros at the U.S. News STEM Solutions conference in Austin, Texas. The conference, held on June 19, highlighted a number of approaches funded in part by department investments in the community college system. Acting Secretary of Labor Seth D. Harris participated alongside several CEOs in a panel discussion that focused on what major employers look for in a STEM workforce. Harris called attention to the need to work with community colleges and other training providers to cultivate job-worthy skills. During the panel, Harris also discussed the important role immigration reform would play in streamlining the visa system



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MEDC Daily: Companies have sunnier views of Michigan's business climate

ME Michigan Economic Development Corporation <DoNotReply@info.Michigan.gov>

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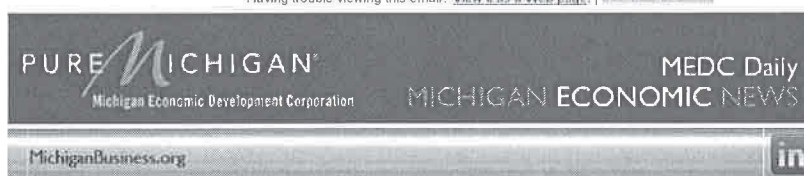
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Ferrick, Karyn (TIA)

From: Silfven, Ken
Sent: Thursday, October 15, 2015 8:48 AM
To: Robinson, Lynda (LARA); Comai, Stephanie (LARA); Ferrick, Karyn (LARA)
Subject: Fwd: Media Permission for Flint Water Donation

Thx Lynda. I'm good with it but just looping in others because this whole thing is been so sensitive.
Ken

Sent from my iPad

Begin forwarded message:

From: "Robinson, Lynda (LARA)" <RobinsonL7@michigan.gov>
Date: October 15, 2015 at 8:13:57 AM EDT
To: "Silfven, Ken" <SilfvenK@michigan.gov>
Subject: FW: Media Permission for Flint Water Donation

Hi Ken,
Just want to make sure you have no objection to this. I will let them know that they shouldn't talk about anything other than this project.

From: Moffett-Massey, Sharon (UIA)
Sent: Wednesday, October 14, 2015 10:00 PM
To: Alvarado, Heriberto (UIA); Robinson, Lynda (LARA)
Subject: Re: Media Permission for Flint Water Donation

I'm looping in Lynda, Lynda I'm in support but want to ensure what is listed or stated is accurate.

Thanks,

SAMM

On Oct 14, 2015, at 4:42 PM, "Alvarado, Heriberto (UIA)" <AlvaradoH@michigan.gov> wrote:

Hello Samm

The LALO committee at the Lansing RICC reached out to the City of Flint regarding their need. They are requesting to recognize UIA regarding their efforts.

Can we give permission to allow their acknowledgment?
Thank you Samm

Sent from my iPhone

Begin forwarded message:

From: "Miller, Kimberly (UIA)" <millerk36@michigan.gov>
Date: October 14, 2015 at 4:36:02 PM EDT
To: "Alvarado, Heriberto (UIA)" <AlvaradoH@michigan.gov>

Cc: "Miller, Kimberly (UIA)" <millerk36@michigan.gov>
Subject: FW: Media Permission for Flint Water Donation

HI Ed,

Here is the Flint Water Donation made by the Lansing UIA staff email. Please review and let me know how you'd like us to proceed.

Thank-you,

Kimberly Miller
Operations Director Lansing RICC
Desk: 517-335-0655
Cell: 517-388-5438

<image001.jpg>

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From: Balla, Susan (UIA)
Sent: Wednesday, October 14, 2015 2:08 PM
To: Miller, Kimberly (UIA)
Cc: Walkington, Cindy (UIA)
Subject: Media Permission

I contacted Eric Mays, 1st Ward City Councilman in Flint Michigan, in regards to where is the greatest need for the bottle water. He stated the greatest need was the Senior Center – Slidell.

He wants to know if we want to be recognized by the media? If so, he will have the media give Lansing RICC credit for the water donation. I told him I would need to get permission and get back with him.

Can you please forward to see if we have permission for the Media to give us recognition of the water donation?

Kindest Regards,

Susan Balla

Morado, Irene (WDA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Tuesday, January 05, 2016 9:36 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 1/5/2016



TIA DAILY MEDIA UPDATE

Tuesday, January 5, 2016



Talent News

MICHIGAN

GM adding 500 jobs, 3rd shift at Lansing plant

The Detroit automaker said Monday the additional shift, coming online in the second quarter, is needed to meet forecast demand for the 2016 Chevrolet Camaro.

Sterling%20Heights%20development%20part%20of%20Macomb%20turnaround

In 2014, Macomb had 70,043 manufacturing jobs compared to 50,288 in 2009.

State employees who intentionally distort data could face jail time under a proposed law

A state lawmaker wants to make it a felony for state employees to manipulate data in official reports.

Report: Unemployment rate dips in Battle Creek

The Michigan Bureau of Labor Market Information and Strategic Initiatives reported gains of about 300 jobs in the trade, transportation, warehousing,

utilities fields and 200 jobs in the manufacturing and government fields.

The 6 fastest-growing jobs for 2016 in Michigan

A wide-range of career opportunities are available.

ACROSS THE U.S.

Time to Talk Robots

A lot of the manufacturing jobs the United States lost over the past 50 years didn't go overseas; they simply disappeared with the advent of new technology.

Legislative Update

Snyder weighs declaring water emergency in Flint

Gov. Rick Snyder is considering whether to declare an emergency for Flint's contaminated water a week after apologizing to residents for the state's handling of Flint's water crisis.



Michigan taxpayers have spent more than \$77,000 on the Courser-Gamrat scandal so far

Progress Michigan filed a Freedom of Information Act request about the cost of hiring the law firm Dickinson Wright.

Revolving door? Top Snyder aide to register as lobbyist

Muchmore's last day in the governor's office is Jan. 20, though he said he may continue to advise Snyder on special projects, if requested to do so, without compensation.

Opinion

State apology, resignation over Flint water first step

For months, Snyder and his MDEQ attempted to dodge the reality that state policy wrought in the City of Flint.

Editorial: Don't restrict gun rights by executive order

President Barack Obama will begin his final year in office by testing how much power he can consolidate in the executive branch.

Susan J. Demas: Oregon militiamen just want free stuff from the government

An armed militia has taken over a federal wildlife refuge in Oregon, which you'd think would cause law-and-order conservatives some consternation.

Profits drive employment, not the other way around

The most recent U.S. employment report shows that 211,000 jobs were created in November, extending the current streak of job creation to its 69th month.

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Morado, Irene (WDA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Monday, January 04, 2016 8:44 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 1/4/2016



TIA DAILY MEDIA UPDATE

Monday, January 4, 2016



Talent News

MICHIGAN

Legoland Discovery Center job fair will fill 60 to 70 positions

Legoland Discovery Center needs to hire people for dozens of part-time jobs, so the attraction is launching a job fair to fill the positions.

5 trends to watch in Michigan's economy

U-M forecast extends Michigan's economic growth through at least 2017 with 61,100 jobs in 2016 and 64,800 the following year.

St. John Providence nurse-anesthetists lose jobs in outsourcing dispute

In October, the hospitals gave them a choice: either sign a contract with a brand-new company run by a hospital anesthesiologist, or "voluntarily resign" their jobs.

Lakeshore Advantage works to bolster local economy, reports 2015 success

In 2015, 22 companies worked closely with Lakeshore Advantage to enhance growth. The projects will create 780 jobs and more than \$180

million in private investment.

Real impact of minimum wage increase

Now in it's second year of increases, the minimum wage will jump again in 2017 to \$8.90 an hour.

ACROSS THE U.S.

This week: Jobs, service sector expected to show healthy growth

For those still mired in a post-holiday daze, the new year brings a crisp parade of economic news, highlighted by Friday's jobs report.

Legislative Update

Some Republican lawmakers want another road funding battle in 2016

A new proposal in the Senate would repeal a \$1.2 billion funding plan.



States take on campus sex assault laws, but not Mich.

Michigan is reliant on each individual public university to set its own policy.

Could 2016 be the year of marijuana in Michigan politics?

2016 could bring major changes to the way Michigan treats marijuana.

Opinion

Editorial: Snyder should veto campaign finance bill

An amendment that got added at the last minute to a fairly innocuous campaign finance bill went too far in tying the hands of school districts and local government.

Susan J. Demas: The Flint water crisis will cause pain for decades to come

The Flint water crisis is one of those stories that seems too terrible to be true.

Snyder's choice on voter options: Experts or lawmakers?

Depending on your political predilections, this may be a grand case of "don't confuse me with the facts, my mind is made up."

The long road to the White House

The good news is that the 2016 presidential campaign is halfway over.

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From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Wednesday, December 30, 2015 8:29 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 12/30/2015



TIA DAILY MEDIA UPDATE

Wednesday, December 30, 2015



Talent News

MICHIGAN

Jobless rates drop in 14 of 17 major Michigan labor markets

Michigan's seasonally unadjusted unemployment rates have dropped slightly in most of the state's 17 major labor markets.

Michigan Sugar to invest \$125 million at its 4 locations

Michigan Sugar Company is investing \$125 million in improvements into its four locations — including \$57 million in Croswell.

Big holiday profits for Michigan retailers

Bill Hallan with the Michigan Retailers Association says consumer confidence is at an all-time high.

Apple buds are fine despite recent warm weather

Apples are Michigan's largest and most valuable fruit crop. Michigan growers produced more than 24 million apples, or more than 1 billion pounds last year.

Wellness retailer eyes West Michigan market

A retail chain that focuses on health and wellness is looking at the Grand Rapids market.

Benefits of summer jobs include better habits, grades

Michigan WORKS! Youth Services has centers across the state, geared at finding jobs for youth and teaching them skills to succeed like writing a resume and practicing interviews.

ACROSS THE U.S.

U.S. Consumers Gaining Confidence in Economy

Conference Board index climbs to 96.5 in December

Legislative Update

Snyder apologizes, Wyant resigns in Flint water crisis

Gov. Rick Snyder apologized to the City of Flint on Tuesday for the drinking water crisis.



Rep. Upton plans congressional review of concussions

The causes and after-effects of concussions will be investigated by several subcommittees of the House Energy and Commerce Committee.

Schools cry foul over bill limiting millage proposal publicity

While telling residents how to vote on ballot measures is already prohibited, the new restriction takes aim at those who've previously violated that law.

Michigan Gov. Rick Snyder, legislative leaders name biggest disappointments of 2015

The Flint drinking water crisis was the biggest disappointment of 2015, according to Gov. Rick Snyder and Senate Minority Leader Jim Ananich.

Opinion

Snyder's choice on voter options: Experts or lawmakers?

Depending on your political predilections, this may be a grand case of "don't confuse me with the facts, my mind is made up."

Legislature lets tragic failure in Detroit schools go on
Detroit kids aren't getting the most important thing they need to make it in life, a great education.

Editorial: Emergency management law working for cities
Michigan will start the year with not one of its local communities under emergency management, with the emergence of Lincoln Park from state control last week.

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From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Tuesday, December 29, 2015 8:55 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 12/29/15



TIA DAILY MEDIA UPDATE

Tuesday, December 29, 2015



Talent News

MICHIGAN

Advanced Manufacturing Expo Moves to DeltaPlex, Joins Forces with West Michigan Works! to Hold Largest Public Technology Show in Michigan

The exhibition and job fair will take a total of 33,000 square feet of space at the DeltaPlex with room for 190 booths.

Detroit to job-hunting felons: We can help

Job applicants are not immediately asked about criminal history

Michigan-based Creative Foam turns to renewable energy to grow business

Creative Foam is in the midst of an expansion in Grand Blanc Township that is expected to add up to 20 jobs over the next five years.

New Year brings familiar challenges for economic development

A gap in skilled talent remains top of mind.

Minimum wage will increase to \$8.50 Jan. 1

In May 2014 the Michigan Legislature approved a bill that would gradually

increase minimum wage to \$9.25 an hour by 2018.

Workforce agency appoints leaders

A newly formed regional workforce entity has its leadership in place.

Wal-Mart giving raises to nearly 29,000 Michigan workers

Wal-Mart plans to give raises to nearly 29,000 workers in Michigan, bringing the new average wage to \$13.51 for full-time workers and \$10.60 for part-timers.

ACROSS THE U.S.

2016 Could be the Year of the Job-Hopper

A new study suggests more than one in five employees are hoping to switch jobs in the new year.

Legislative Update

Michigan Gov. Rick Snyder, legislative leaders name top accomplishments of 2015

Michigan's continued economic recovery was the top accomplishment for the state in 2015, according to Gov. Rick Snyder.



Bill would protect workers from being fired for having medical marijuana card

Bills in the state Senate would create protections for dispensaries and people who use non-smokable forms of medical marijuana, such as baked items and oils.

Michigan criminal justice reforms, shelved in 2015, are on the radar for first half of next year

One proposal Snyder supports is presumptive parole, where prisoners would be let out after serving their sentences unless they were determined to be high-risk.

Auditor General's report says Flint water should have gotten corrosion control

Ananich, along with State Rep. Sheldon Neeley, called for legislative hearings and has asked for a more aggressive response to Flint's water crisis.

Opinion

Snyder hits 'pause' again - on flak for immigration statements

The problem with recording political remarks is that they can come back to bite you in the you-know-where when you change those remarks.

Susan J. Demas: When it comes to terrorism, the only thing we have to fear is fear itself

People have been incredibly jittery since the Paris attacks last month. Terrorism now tops the list of Americans' concerns in some polling.

More answers needed for Wayne Co. jail mess

The long-delayed release of an audit reveals officials knew in 2011 that the new jail they were proposing would be at least \$41 million over budget.

Black lives, Tamir Rice and America's uncivil history

If this wasn't a mistake in the execution of police business, what would one look like?

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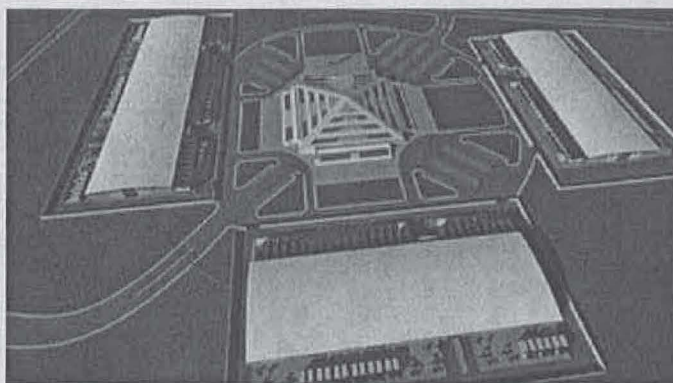
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Sent: Tuesday, November 17, 2015 8:50 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 11/17/2015



TIA DAILY MEDIA UPDATE

Tuesday, November 17, 2015



Talent News

MICHIGAN

Switch confirms plans for \$5B investment, 1,000 jobs at West Michigan data center

The new 2 million-square-foot data center, dubbed Supernap Michigan, would be the largest data center in the eastern United States.

One thousand jobs targeted for veterans through MVAA's Veteran-Friendly Employer program

Nearly 1,000 good-paying jobs are ready to be filled by veterans at companies throughout Michigan that recognize and respect their military skills, training and experience.

Outdoor Adventures hiring 30 full-time employees, fixing up historic building in downtown Bay City

the owners of Outdoor Adventures, now in their 20th year of business, have made a commitment to bring the building — and downtown Bay City's economy — back to its former glory.

MSU to join Clinton Global Initiative University

Michigan State University will join his Global Initiative University and offer a campus-wide minor in entrepreneurship and innovation.

U.S. agency strives to be stronger community partner

The U.S. General Services Administration announced Monday a new focus on aligning with the economic development goals of local communities to retain and grow jobs.

ACROSS THE U.S.

Voting on UAW-Ford contract to enter crucial 2nd phase

While workers at two Ford plants voted against a proposed four-year agreement most UAW workers that have voted so far support the contract

Legislative Update

Snyder change on Syrian refugees leads more opposition

Snyder hasn't said outright he opposes attempts to relocate Syrians in Michigan, even though he is suspending his own efforts to bring to more to the state.



Flint, Michigan residents sue city, state over tap water

Residents of Flint, Michigan have filed a lawsuit accusing the city and state of endangering their health by exposing them to dangerous lead levels in their tap water.

Judge: Firm to turn over coding for Express SOS system

The state had argued that without the coding, it faced a range of security threats to the Secretary of State system.

Opinion

Republicans may have to do a deal over changing how you vote

For you truly old-timers, you will recall the slogan, "Make it emphatic, vote straight Democratic."

Susan J. Demas: Can Mitt Romney save the GOP by running for president?

Kooky outsiders Ben Carson and Donald Trump are still dominating the GOP presidential field.

Editorial: Respect voters on Berkley logo

Some in Berkley thought the seal was quaintly outdated, given the shifting cultural views on family and religion.

The long road to peace and the end of terror

In the wake of the ISIS attacks in Paris, we've been subject to a cacophony of war-mongering.

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Sent: Monday, November 09, 2015 8:33 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 11/9/2015



TIA DAILY MEDIA UPDATE

Monday, November 9, 2015



Talent News

MICHIGAN

Job creation cuts unemployment rate

The unemployment rate in Michigan had a significant drop of 1.6 percent from September 2014 to September 2015, according to the Bureau of Labor Statistics.

Special testing time offered for vets seeking jail jobs

Wayne County is seeking to fill nearly 200 jail officer positions and has scheduled a special testing session for U.S. military veterans.

6th Annual Accelerate Michigan Innovation Competition Winners Announced

To date, Accelerate Michigan companies as a whole have raised more than \$550 million in follow-on funding and created more than 1,000 jobs in Michigan.

Governor Snyder advocates for skill-based jobs

There are more than 8,300 skilled trade jobs currently available in Michigan and Monday Governor Rick Snyder will be busy in Grand Rapids raising

awareness for those professions.

Faurecia to invest \$8 million, create 90 jobs at Sterling Heights plant
Faurecia Automotive Seating LLC, a subsidiary of French supplier Faurecia SA, plans to invest \$8 million to upgrade its Sterling Heights plant.

ACROSS THE U.S.

If Jobs Report Heralds a Solid Upturn, Democrats' Fortunes May Also Rise
Friday's surprisingly robust jobs report cheered Democrats hoping to retain the White House and capture the Senate next year.

Legislative Update

Gov. Rick Snyder backs committee-approved House energy plan for Michigan

Gov. Rick Snyder on Friday issued a statement in support of the House energy plan approved by the House Energy Policy Committee this week, saying the bills would be a victory for Michiganders.



Senate leader opposes bonds to accelerate road fixes

The leader of Michigan's Senate opposes pledging future increases in fuel taxes and vehicle fees toward bonds to accelerate road construction projects next summer.

Michigan ranks last in laws on ethics, transparency

Michigan's worst--in-the-nation ranking doesn't mean Michigan is the most corrupt state.

Opinion

Year before water change, state knew of risks in Flint

State and local officials knew in 2013 that without proper treatment of water drawn from the Flint River, they risked subjecting the people of Flint to lead-contaminated drinking water.

Editorial: WSU gets ahead of doctor shortage

The new and ambitious Med-Direct program promises great rewards for both students and the community.

Snyder's road plan Part B - for bonds - gets a F from both sides

Gov. Rick Snyder's critics contend by announcing he may sell bonds to raise money to start road repairs in 2016, he's de-facto adding credence to the Democratic story line.

How to thank this veteran (and others); Support prevailing wage
Gilbert Charles, of Pinckney, is a U.S. Army veteran who served in the 1980s and moved to the skilled trades.

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Sent: Tuesday, November 03, 2015 8:33 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 11/3/2015



TIA DAILY MEDIA UPDATE

Tuesday, November 3, 2015



Talent News

TIA IN THE NEWS

Not Enough Skilled Trades Workers In Michigan

The number one problem facing Michigan is filling job positions with skilled workers, according to Stephanie Comai.

MICHIGAN

New state program matches skilled immigrants with employers

A new state initiative aims to help foreign-born professionals find jobs in Michigan.

Job outlook for northwest Michigan

Determining the jobs that will be in demand over the next 5-10 years is not an easy task.

Study: Number of Michigan women in top jobs stagnates

The number of women in top spots at Michigan's top 100 public companies has stagnated over the past two years.

Job fair for military veterans is Thursday in Kalamazoo

More than 50 Southwest Michigan businesses and organizations are set to participate in Hire A Veteran.

Christmas comes early at northern Michigan tree farms

Workers expect to harvest 50,000 trees from the farm's 600 acres under cultivation.

Michigan Supreme Court to hear case of fired nurse who won \$1 million lawsuit but hasn't collected a cent

Though the nurse argues his termination was retaliatory, his former employer tells a much different story.

ACROSS THE U.S.

Obama tells federal agencies to 'ban the box' on federal job applications

Obama said the federal government "should not use criminal history to screen out applicants before we even look at their qualifications."

U.S. Manufacturing Activity Expands at Slowest Pace in Two Years

ISM's manufacturing PMI slowed to 50.1 in October from 50.2 in September.

Legislative Update

Election 2015: Vote today for huge school bonds, state House primary and city leaders

Voters in four Kent County school districts will decide whether to spend a combined \$300 million on capital improvements today, and voters in three cities will consider contested mayoral races.



Michigan Senate may vote on road-funding plan with tax, fee hikes; Snyder, GOP leaders to meet

The chamber could pass a new proposal Tuesday. GOP legislative leaders and Gov. Rick Snyder are meeting before the session.

Senate committees urge U.S. to upgrade Soo Locks

"Despite the rapid transformation and growth of

our economy, the Soo Locks have not kept up with the times.

Opinion

Flint water crisis spills over to Detroit schools plan

The former emergency manager in Flint showed up the other day and was immediately grilled on his role in the lead-in-the-water contamination crisis in that city.

Snyder: Creative thinking, not just more funding, can make college more affordable

In-state tuition will average about \$11,452 this year at Michigan public universities.

A party divided: Paul Ryan takes the reins

Ryan takes control of a party divided, so profoundly torn its continued existence is in question.

Editorial: Lawmakers should stay all night to fix roads

They should not leave until they've passed a bill.

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Sent: Friday, October 30, 2015 8:55 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/30/2015



TIA DAILY MEDIA UPDATE

Friday, October 30, 2015



Talent News

MICHIGAN

Comcast adding 400 jobs, aims to improve service

About 300 of them will be in the company's customer service call centers in Ann Arbor, Plymouth and Sterling Heights.

The Right Place celebrates 30 years, thousands of local jobs

The Right Place has been credited with helping thousands of West Michigan companies to invest more than \$4 billion in capital and create more than 40,000 jobs throughout the region.

66 new jobs coming with \$16M baking line expansion

Hearthside Food Solutions, LLC, the nation's largest privately held baking company, is continuing to expand in Kentwood.

Power line workers are hot commodity in Michigan

Factoring in expected retirements, the state needs to grow the ranks of its

2,470 power line workers to about 3,470 by 2020 to keep pace.

Demolition of Pontiac Silverdome to begin in spring '16

Once the stadium is leveled, the developer's plans for the site includes stores, offices, a hotel and light manufacturing.

ACROSS THE U.S.

UAW-GM workers set to vote on agreement with 'significant gains'

In the proposed deal, workers would have traditional wages within eight years.

Legislative Update

Michigan judicial races most expensive in nation

Campaign and judicial watchdog groups released a report Thursday saying Michigan ranked highest in the nation in 2014 for election spending on its Supreme Court races.



Are we there yet? The Senate says no

The Michigan Legislature may be inching toward a roads funding package.

Splitting the deficit: How Snyder plans to fix Detroit school debt

Snyder wants new Detroit schools legislation approved by the end of the year so that it may be put into action for next school year.

Michigan Promise Zone Expansion Bills Clear State Senate

Based on the Kalamazoo Promise initiative, this program allows local communities to pool resources and use tax increment financings to help all students afford a college education.

Opinion

Rothwell: Assessing Michigan's talent future

The jobs that pay the most and are growing the fastest require more education and training.

Government messed up in Flint water crisis, what next?

It's a confounding question, and it's one that now falls to a state-appointed task force to answer.

Our editorial: Anybody but Courser, Gamrat

Voters have a chance to put an exclamation point on the end of the political careers of Todd Courser and Cindy Gamrat.

Susan J. Demas: GOP roads plan could kill Snyder's signature 2011 tax reform

If there's one thing we know about our CPA governor, he's a fiscal nerd.

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Sent: Wednesday, October 28, 2015 9:43 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/28/2015



TIA DAILY MEDIA UPDATE

Wednesday, October 28, 2015



Talent News

MICHIGAN

World's largest craft distributor announces \$33M expansion in Michigan
It will add 250 new permanent positions to its current 800-person year-around workforce.

New Holland Brewing's West Side project secures \$2.1M tax incentive
The project will also create 219 jobs.

Apprenticeships are springboards to quality careers
As students transition from being in school to the working world, it can be hard to stand out to employers without having relevant experience.

A glimpse into the West Michigan manufacturing market
Over recent years, the West Michigan industrial and manufacturing market has experienced a path of steady growth.

Wal-Mart to add more than 1,400 seasonal workers in Michigan for the

holidays

Wal-Mart announced recently that it will hire more than 1,400 workers for the holiday season in Michigan, according to a news release.

Voice for the disabled

Livingston County's unemployment rate of 11.2 percent for people with disabilities is two times higher than the rate for people without disabilities, according to the U.S. Department of Labor.

ACROSS THE U.S.

Class of 2016 Graduates May Step Into Millennials' Best Job Market Yet

Next spring's college graduates may find employers awaiting them with open arms.

UAW voting on GM contract starts Friday

A notice at GM's assembly plant in Fairfax, Kansas, said workers will vote after their shifts beginning Friday morning

Legislative Update

Governor Establishes New State Employees Retirement Panel

Governor Snyder has issued an executive order creating the State of Michigan Retirement Board.



Senate adjourns without consensus on a fix for roads

A proposed 40% hike in vehicle registration fees was the road block to the plan.

Ananich blasts former emergency manager for Flint water switch 'fairy tale'

Ananich said he thinks "there's absolutely no question" that Earley is downplaying his role.

Michigan's autism fund will run out of money in November, officials say

"By the end of November we are anticipating the fund to be depleted completely," Wright said.

Opinion

Should Michigan keep the same old judges past 70? Maybe
Judges around the state face mandatory retirement once they plop 70 candles on their birthday cake.

Susan J. Demas: Why is the Drudge Report weirdly obsessed with Clinton's health?

The Drudge Report is crack for political reporters.

A small victory for regional transit in metro Detroit

If you're riding a bus up Woodward from Detroit to the suburbs, you shouldn't have to switch or transfer.

Editorial: Rules deny small investors advice

The remedy the administration has come up with would harm the very people it is intended to help.

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Sent: Monday, October 26, 2015 8:46 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/26/2015



TIA DAILY MEDIA UPDATE

Monday, October 26, 2015



Talent News

MICHIGAN

Meijer deal doubles size of Detroit tortilla maker

Hacienda has added a second shift at the southwest Detroit manufacturing plant to fulfill the retailer's orders.

Muskegon's Promise: Leaders hope college-funding program will boost talent, community revitalization

High school graduates in Muskegon County will now have access to scholarship funds that will pay for two years of community college.

MI Bright Future helps support student career awareness year-round

The Southeast Michigan community can support student career awareness, and bridge the skills gap.

Officials select next Michigan civil rights chief

The state Civil Rights Commission chose Agustin Arbulu as executive

director of the department.

Hiring crisis: Ann Arbor restaurants struggle to find workers

Finding staff to fill open positions has become increasingly difficult.

Report: Rising health care costs could hurt job creation, wages

The Economic Alliance report said several factors are driving up health insurance premiums and prices in Michigan.

GM lays off 500 at Orion assembly plant

Most of the 500 workers laid off at the Orion plant will have the opportunity to move to GM's Detroit-Hamtramck plant where the automaker said Thursday it will add a second shift.

ACROSS THE U.S.

U.S. union, GM reach tentative agreement on labor contract

The proposed deal will now go to a council of several hundred UAW leaders from GM's U.S. plants meeting on Wednesday, who are expected to approve it.

4 reasons recent grads should consider small business employment

Finding and hiring qualified talent remains a key challenge for 70% of small business owners.

Legislative Update

Bill lets retirees teach, get pension due to lack of subs

A 2012 law allowing teachers who retired after mid-2010 to teach again without losing their pension expired more than 15 months ago.

Lots of cash in elections, but not for Courser, Gamrat

And as for the two lawmakers who are trying to win their seats back, there's not a whole lot of financial support out there for them.

Michigan House GOP roads plan could leave tough budget decisions up to future legislators

Half of the road funding money would eventually come from the state's general fund.

Is emergency manager law to blame for Flint water crisis?

Flint was under the control of a state-appointed



emergency manager when it began drawing water from the Flint River.

Opinion

In politics, he or she who hesitates might get lost in the shuffle
So the jockeying is in full bloom behind the scenes.

Could Snyder help for Detroit schools spread to all Michigan districts?
The debate is also driven by other districts that have their own financial challenges.

Follow the money trail in campaign donations
A big campaign war chest doesn't guarantee a win. But it doesn't hurt.

Our editorial: Scrap 'pay or stay' with court rule
Jailing individuals simply because they can't afford to pay a fine — commonly called pay or stay sentencing — is unconstitutional.

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Sent: Thursday, October 22, 2015 8:57 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/22/2015



TIA DAILY MEDIA UPDATE

Thursday, October 22, 2015



Talent News

TIA IN THE NEWS

[Building a path to better, higher-paying Michigan jobs](#)

A conference Tuesday at Grand Valley State University in Grand Rapids focused on career opportunities and challenges to upward mobility in the state.

MICHIGAN

[Capital Area Michigan Works! proud of its young leaders](#)

The 10 Over the Next Ten Awards highlight our region's top 10 young professionals who are expected to contribute significantly to our community over the next 10 years.

[Michigan businesses open to 'Eureka' tech, but need more workforce training, report finds](#)

The Workforce Intelligence Network for Southeast Michigan this week released new survey data on the economic and workforce-related effects

of disruptive technology and trends.

Central Michigan University receives \$5 million STEM donation from Midland Foundation

The initiative will be coordinated through CMU's Center for Excellence in STEM Education.

ACROSS THE U.S.

Fiat Chrysler Workers at Several Plants Back Contract Proposal

Official results for the two-day balloting period, which ended Wednesday night, are not expected until Thursday.

Legislative Update

Michigan House passes \$1.2B road funding plan

The governor said he has "some concerns" with the new legislation.

Decision due on Ambassador Bridge's twin span by Jan. 4

he privately owned bridge company still needs a variety of permits and clearances from the Canadian side of the Detroit River.

Governor creates task force in response to city's water crisis

Gov. Rick Snyder is creating an independent advisory task force to address water safety.

State rep: MDOT leader has to go

MDOT spokesman Jeff Cranson said in a separate email that Dianda's assertions were "totally ridiculous and conclusory."



Opinion

CEOs to lead Detroit job development efforts

The city board that oversees workforce efforts has undergone a complete transformation in leadership.

Ken Braun: Should lying be illegal for everyone but the politicians?

If lawmakers want to police political lying, then they should turn their attention to the experts and leave the petition circulators alone.

MDEQ e-mails show stunning indifference to Flint peril

Lackadaisical and dismissive -- that's the tone of a Michigan Department of Environmental Quality spokeswoman's response.

Editorial: Michigan jobless rate shows economic growth

About 90,000 private sector jobs have been added in Michigan since this time last year, due to several factors.

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Sent: Tuesday, October 20, 2015 9:03 AM
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Subject: TIA Daily Media Update 10/20/2015



TIA DAILY MEDIA UPDATE

Tuesday, October 20, 2015



Talent News

MICHIGAN

Students, teachers gain research experience from Saginaw Valley, Dow Foundation STEM program

The Dow Science & Sustainability Education Center is a great opportunity to engage students in real-life experiments and to foster excitement about STEM.

Detroit development agency hires executive vice-president

The Detroit Economic Growth Corp. announced Monday it has named Moddie Turay as its new executive vice president of real estate and finance.

Howes: Big Three's labor bill ain't what it used to be

In 1999, GM's UAW labor bill totaled \$18.14 billion, CAR found; last year, it totaled \$7.07 billion, a 61-percent decline.

GM and DTE partner for automaker's largest solar project in Michigan
General Motors and DTE Energy are building an 800-kilowatt solar array.

Report: Ann Arbor-based startup acquired by Dyson for \$90M
Ann Arbor-based battery startup Sakti3 has been acquired by Dyson, according to a report in USA Today.

ACROSS THE U.S.

Amazon adding 100,000 jobs for holiday season
Amazon plans to hire 100,000 people for the holidays, a 25 percent jump from last year.

The Latest Jobs Reports Show We Are in a Stagnant Recovery
Several economists sum up the recent U.S. employment reports in one word: bad.

Legislative Update

Snyder details plans to fix Detroit schools; could cost state \$715 million

Snyder said he is working with a bipartisan group of lawmakers to draft bills, which could be introduced within two weeks.



'Green Tea' Party? Far right Republicans, liberal Democrats aligning on Michigan renewable energy issue

In Michigan we have seen great support across the aisle and across the political spectrum.

Opinion

Gov's plan to fix DPS: The best we've got
We'd all better hope Gov. Rick Snyder's plan to fix Detroit's public schools works, because it's the best option on the table.

Susan J. Demas: Here's how bad things are for Democrats in Michigan
The best Democrats can hope for in '16 is to take back the state House.

Lawmakers moved fast to get the lead out of Flint water
In record time — less than a week — both the House and Senate stepped up in a strong bipartisan manner to send emergency assistance to Flint

Editorial: Social Security should be top campaign issue

Social Security Disability checks should not be a substitute or an extension of unemployment benefits.

Why fear-mongers are losing the prison reform fight

Keeping low-risk offenders locked up longer isn't just ineffectual, moreover; it siphons resources from education and re-entry programs that actually do reduce recidivism.

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Morado, Irene (WDA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Monday, October 19, 2015 8:40 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/19/2015



TIA DAILY MEDIA UPDATE

Monday, October 19, 2015



Talent News

TIA IN THE NEWS

Manufacturers produce seminar on filling 'skills gap'

Over the next decade, nearly 3.5 million manufacturing jobs likely need to be filled.

MICHIGAN

Hiring people with disabilities is good business sense for Michigan employers

Only 34 percent of intellectually disabled adults are actually working, according to a survey by Special Olympics.

Plans move ahead for \$30M Detroit manufacturing facility

Plans by India-based Sakthi Automotive Group for a roughly \$30 million manufacturing facility on Detroit's southwest side are moving forward.

What do you call a WCC automotive graduate? Employed
Mike McGraw, 23, a WCC alumnus now works at Campbell Collision in Brighton after graduating from WCC.

UAW: Michigan DHHS wants to outsource CPS work
DHHS says no plans to outsource state jobs in child welfare reforms

Retailers Struggle to Fill Holiday Jobs: Openings in Birmingham
If there's a dark lining in that silver cloud, it's that retailers in Michigan and nationwide are struggling to fill jobs for their busiest time of the year.

ACROSS THE U.S.

Don't Fear The Robots Stealing Our Jobs: The Labor Department Tells Us Why
The message from this report is that we really don't need to fear the robots coming to steal all our jobs.

Wave of Megadeals Tests Antitrust Limits in U.S.
Analysis shows that in many industries, most firms are competing in highly concentrated markets.

Legislative Update

Michigan DEQ vows changes in Flint water crisis
Michigan's top environmental official acknowledged the state made mistakes in its handling of Flint's long-running water crisis

Senate bill expands community college degree programs
Michigan State Sen. Mike Shirkey, R-Clark, has introduced a proposal, Senate Bill 98, which would allow community colleges to grant four-year degrees in nursing and five other fields.

4 years after Michigan tenure reform, 'everything in place' for new teacher evaluation law
Annual evaluations were envisioned as a key component of major teacher tenure reform laws enacted in 2011.

As Syrian refugees arrive, Michigan makes case for more
Michigan's Republican Gov. Rick Snyder is bucking those party leaders by welcoming the



Syrians, both for humanitarian reasons as well as to address the state's job and population loss.

Opinion

Snyder faces 6 big headaches as his second term unfolds

The governor may not realize it yet, but he has contracted a severe case of second-term-itis.

Our Editorial: Impasse on roads not an option

When things bog down, leaders can't toss up their hands and walk away.

Constituent's idea could lead to tax relief

I believe the best solutions to our nation's problems come not from Washington, but from individuals and groups right here in the 4th Congressional District and around the country.

Column: Boost schools, end prevailing wage

It is so important to give our schools flexibility with their existing resources and better control over their spending costs.

Schuetz and Meekhof, top guns in Lansing, trade shots on parole bill

This is the measure that the crusading state attorney general labeled as putting the system on "automatic pilot."

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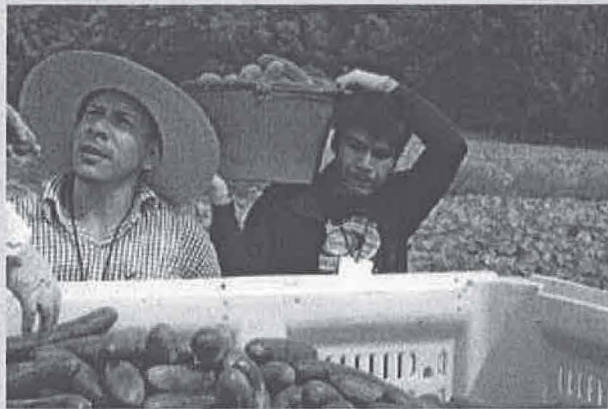
Morado, Irene (WDA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Thursday, October 15, 2015 8:59 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update



TIA DAILY MEDIA UPDATE

Thursday, October 15, 2015



Talent News

MICHIGAN

Michigan Agriculture's Push to Foreign Labor Leaves Migrant Advocates Concerned

Neither farmers nor migrant advocates are very happy about the change.

Michigan state employees would see raises under deals

Gov. Rick Snyder's Office of the State Employer and most state employee unions reached tentative deals, unions announced Wednesday.

State jobless rate below national average

State's monthly unemployment level at 5% is slightly below the national average of 5.1% for the first time since August 2000.

2 major Michigan credit unions to merge

The proposed merger is billed as the largest merger in credit union history.

Consumers Energy Promotes Science, Technology Fields by Sponsoring

Women of Color STEM Conference in Detroit

Officials from Consumers Energy will be welcoming professionals and students in the fields of science, technology, engineering, and math this week to Detroit,

ACROSS THE U.S.

Companies to Workers: Start Saving More—Or We'll Do It for You

Firms are boosting the automatic retirement-savings rate—and finding little pushback from employees

Job Stress Tied to Stroke Risk, Study Suggests

Having a high-stress job, particularly one that is demanding but offers little personal control, may raise the risk for a stroke, Chinese researchers report.

Legislative Update

Poll: Minimum nurse staffing levels a win with voters

Later this morning in the Capitol rotunda, a bipartisan, bicameral group of lawmakers are expected to announce legislation that would establish minimum nurse-to-patient ratios.



Michigan House OKs \$9.35M for Flint water switch, crisis response

The Michigan House on Wednesday unanimously approved a \$9.35 million spending plan to help Flint switch water sources.

Michigan Legislature approves bill hiking 529 college savings plan account limit to \$500,000

Legislation part of package to let residents with disabilities open savings accounts to pay for long-term needs

Mich. Senate panel OKs concealed weapons in schools

Over strong objections from educators, a Michigan Senate panel approved legislation Tuesday to allow concealed weapons in schools

Opinion

Stabenow: Equipping a new generation of workers

Here in Michigan we take great pride in our history as manufacturing innovators and workers.

Michigan's mounting water failures

Enjoying our cleaned-up waters defines our Pure Michigan lifestyle.

Finley: Road deal too elusive, too long

A solution continues to bump against entrenched members of both the Republican and Democratic House caucuses.

Our Editorial: UAW's jobs for pay tradeoff

But the elements of the new deal that might appeal to the UAW rank and file also make the contract dangerous for the future of Detroit's automotive industry.

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From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Wednesday, October 14, 2015 8:56 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/14/2015



TIA DAILY MEDIA UPDATE

Wednesday, October 14, 2015



Talent News

MICHIGAN

Students get close look at skilled gas service jobs with openings on horizon
Flint-area high school students had a chance to get a look at what it takes to do various skilled jobs in the natural gas field available with Consumers Energy.

MDOC is looking to hire 200 corrections officers in 2016
The Michigan Department of Corrections is hosting recruitment fairs at universities throughout the Upper Peninsula.

Detroit Water Dept. layoffs prompt pollution concerns
Layoffs in the Detroit Water and Sewerage Department create the risk of pollution violations.

New Opportunities Mean Many Michigan Farmworkers Are Leaving the Fields
Michigan's \$100-billion-a-year food and agriculture industry faces a

crossroads.

Lawmaker proposes Unemployment Insurance Agency reforms after Problem Solvers reports

House Bill 4982 would change the Michigan Employment Security Act.

ACROSS THE U.S.

How Do Employees Really Feel About Their Companies?

Sentiment-analysis software helps identify and resolve issues before talent starts to leave.

Legislative Update

Income tax debate at heart of latest Michigan road funding stalemate

The GOP majority is pushing for an across-the-board income tax cut



Powdered alcohol ban passes Michigan House

A ban on powdered alcohol in Michigan is one step closer to becoming law after winning approval from the House of Representatives on Tuesday.

Oakland County Commissioners pressure state lawmakers over family-friendly policies, seek to add paternity leave

"If we are serious about attracting and retaining talent to Oakland County, we need to update the 'Mad Men'-era policies we have on the books today," Zack said.

Where are the records? Lawmaker wants answers on Flint water switch

tate Rep. Phil Phelps, D-Flushing, wants to know more about the decision-making process that took place before the switch.

Opinion

Schuette rounds up sheriffs, prosecutors to block 'autopilot parole'

To say that Bill Schuette is not competitive is like saying the Lions are going to win the Super Bowl — neither is true.

Ken Braun: Fixing the federal debt needs to start at Michigan's Capitol
Before we add to it, more careful thought needs to be given to what we're going to be purchasing.

Yanez: Prevailing wage good for Michigan

There is a great deal of pressure in our state Legislature to repeal Michigan's prevailing wage law.

For GOP, bloodying unions comes before fixing roads

So far, Republicans have balked — a clear signal that, at least on the GOP's agenda, fixing Michigan's roads takes a backseat to fixing organized labor's wagon.

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From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Monday, October 12, 2015 8:51 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/12/2015



TIA DAILY MEDIA UPDATE

Monday, October 12, 2015



Talent News

MICHIGAN

Turning on jobs in Michigan's energy sector

Recent estimates peg state energy-related jobs at more than 92,000 during the first half of last year, up 4.4% over the same time in 2013.

Needed: apprentices for the building trades

They hope to add 1,100 apprentices this year

Michigan's job creation rate outpaces U.S. average

One subplot is that Michigan is succeeding at creating professional, scientific and technical jobs

Holland-area construction industry rides good economic times, needs workers

The construction industry in Holland and surrounding areas is on an upswing, but local contractors are having trouble keeping up with demand as workers become hard to find.

Holland office furniture supplier expanding

A Holland office furniture supplier is expanding operations and adding new jobs.

New agency seeks to bring economic opportunity to Detroit

A new agency is being created in Detroit in an effort to bring economic opportunity to the city with expanded global partnerships.

Millennials are the new meal tickets for restaurants

Millennials, the 83.1 million Americans born between 1982 and 2000 who now represent the largest single age group in the U.S.

ACROSS THE U.S.

Fed's Fischer Says Economy May Merit Liftoff Later This Year

Federal Reserve Vice Chairman Stanley Fischer said the U.S. economy may be strong enough to merit an interest-rate increase by year end.

Will 2015 pact restore UAW's elite status among unions?

Michigan has inched back up to 35th on the per capita income ranking, from 38th in 2009.

Legislative Update

Detroit-area law enforcement join AG Bill Schuette to oppose parole reform

House Bill 4138 creates "presumptive parole," which would give prisoners determined not to be a menace to society automatic parole consideration once their minimum sentence is served.

Snyder%20officials%20take%20on%20painkiller%20overdose%20'epidemic'

The Snyder administration is battling a surge in overdose deaths in Michigan linked to the abuse of pain and anxiety medications

DTE, Consumers Energy want to shut off Michigan's renewable energy mandates

Since Michigan's energy law was adopted in 2008, billions of dollars have been spent in the state's emerging renewable energy industry.

Michigan Gov. Snyder, administration under mounting scrutiny for Flint's water crisis

Gov. Rick Snyder and his administration face mounting scrutiny for Flint's drinking water crisis.



Opinion

Pete Hoekstra, John Boehner often were at odds, but not out to get even

Once upon a time, there was a conservative chap from Michigan who ended up in Congress serving with an equally conservative son of a bartender from a nearby state. On many major issues,

the two disagreed.

Our Editorial: Detroit's blight progress

Nearly 6,000 blighted structures in Detroit have been demolished since January 2014.

Battle is on for control of Michigan's marijuana market

State lawmakers are finally addressing some of the most egregious defects in Michigan's Medical Marijuana Act.

Puente: How to help small businesses, the future of Michigan's economy

As Michigan's economy continues to recover from the recession, stimulating economic growth is one of the most important things state policy makers in Lansing can do.

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Sent: Friday, October 09, 2015 9:12 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/9/2015



TIA DAILY MEDIA UPDATE

Thursday, October 9, 2015



Talent News

MICHIGAN

Michigan companies offer alternate work schedule in factories to draw talent

A shortage of skilled workers is prompting Michigan companies to think outside the box when it comes to work schedules and perks.

Northern Michigan Companies Struggle to Find Highly Skilled Trade Workers

"The other problem is the perception of engineering and technical careers. Kids think it's too hard and that it's something for other types of people," said Groleau.

State gives Northern Michigan ski resort grant for \$10M expansion

The project will generate private investment of more than \$10 million and create 48 jobs, according to the MEDC.

Fiat Chrysler and U.A.W. Reach Deal, With Bigger Raise at Entry Level

The agreement increases the highest wage for entry-level employees to

\$29 an hour from \$19.

UHY LLP Michigan Hosts Manufacturing Outlook 2016, "Built to Compete"
Attendees will gain valuable insight on how to attract top talent , embrace risk and position their companies for a sustainable future.

ACROSS THE U.S.

Economists See U.S. on Cusp of 'Full' Employment, WSJ Survey Says
'Full' employment seen as no cyclical economic weakness, but also no pressures pushing inflation higher

US jobless claims fall to near 42-year low

The number of Americans filing new applications for jobless benefits fell more than expected to a near 42-year low last week,

These Career Fields Will Hire the Most 2016 College Graduates
Job prospects are looking up for college graduates.

Legislative Update

Snyder seeking \$9.35M in state aid for Flint water crisis, and Michigan lawmakers are on board
Top Michigan lawmakers appear ready and willing to send nearly \$10 million to Flint.



Michigan leaders in showdown over parole reform bill

A bill recently passed in the Michigan House would restrict the Parole Board's ability to extend a prisoner's incarceration beyond his or her minimum sentence.

Feds to release 83 prisoners in Michigan
Inmates to be released in Michigan a small percentage of 6,000 to be released overall

Speaker search puts House GOP in 'complete disarray'

With no warning, Majority Leader Kevin McCarthy withdrew Thursday from the contest for speaker of the U.S. House.

Opinion

Susan J. Demas: GOP gay marriage fight cost Michigan much more than \$2M

You've now spent over \$2 million so that Republican Attorney General Bill Schuette could have the courage of his convictions in fighting gay marriage.

Our Editorial: Congress should approve trade deal

The agreement would eliminate taxes, quotas and other bureaucratic hang ups to freer trade.

Flint water crisis: An obscene failure of government

There's good news: The City of Flint could soon reconnect to the Detroit Water and Sewer Department, a water source that doesn't leach lead from aging pipes into the municipal water supply.

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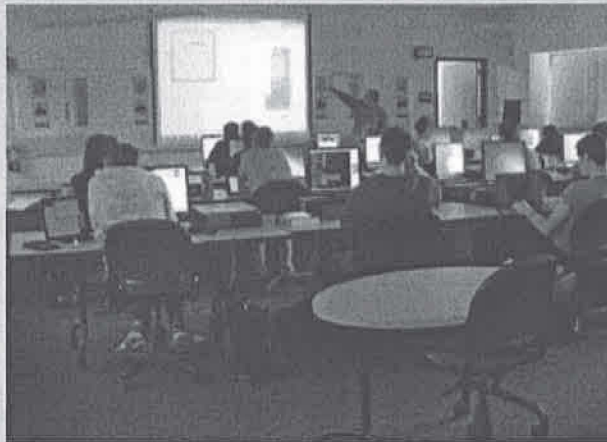
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Sent: Thursday, October 08, 2015 8:51 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update 10/8/2015



TIA DAILY MEDIA UPDATE

Thursday, October 8, 2015



Talent News

TIA IN THE NEWS

[Michigan utilities, Gov. Snyder back Careers in Energy Week](#)

"Michigan's energy industry is a portal to rewarding careers that demand technical skills and training," said Stephanie Comai.

MICHIGAN

[Gov. Rick Snyder calls on Michigan universities to collaborate](#)

Snyder, speaking at Grand Valley State University, said a greater community connection would help more students and parents "understand the value of getting a university skill set."

[Northern Michigan College Granted \\$2 million for New Skilled Trades Equipment](#)

Six departments are sharing that money to prepare students for in-demand jobs.

Monroe County provides work force that is stable, skilled, survey shows
Monroe County has more than 66,200 residents available for employment, with their average age being 42 and 76.5 percent of them having at least some college education.

Careers in Energy Week shows path to high quality jobs
One of our biggest priorities at Capital Area Michigan Works! is to educate and guide job seekers in our current workforce, as well as the job seekers of the future, toward in-demand positions,

Macomb juvenile justice center to layoff 25 workers
Bills proposed in Lansing would raise age from 17 to 18 for when a juvenile is considered an adult in Michigan's criminal justice system

Pension checks to be cut in half for Teamsters retirees
The Central States Pension Fund, which covers Michigan truckers and others elsewhere, said its pays \$3.46 for every dollar taken in through employer contributions.

ACROSS THE U.S.

Strike averted! UAW, FCA reach tentative agreement
A new proposed tentative agreement has been reached between the UAW and Fiat Chrysler Automobiles, averting a strike at the last minute.

College Students Are Graduating Into an Incredible Job Market
Small businesses are especially hungry for talent

Legislative Update

Gov. Snyder says he'll make announcement on Flint water Thursday
Gov. Rick Snyder says on Twitter that he will make an announcement about Flint water at 10 a.m. Thursday.



Michigan lawmakers debate banning plastic microbeads in body care products
Lawmakers want to stop companies from making and selling soaps and facial cleansers with plastic microbeads in Michigan.

Forfeiture reform bills sent to Governor Snyder
The Legislature has sent bills to Governor Rick

Snyder that make some big changes to Michigan's civil forfeiture law.

Former President Bill Clinton visits Michigan

Former President Bill Clinton dropped by Michigan Wednesday to collect cash for his wife's campaign.

Student Count Day in Michigan Held as Legislature Considers Ed Funding Reforms

Lawmakers in Lansing are considering ways to change how state K-12 educational funds are distributed.

Opinion

Frank Kelley's life, Bill Schuette's lessons and 3 other political books

Former Attorney General Frank Kelley's 197-page tome traces his life hanging around his popular dad's Prohibition club to becoming the longest serving A.G. in the nation.

Waiting for answers, action in Flint water crisis

They are still waiting for answers about the water in Flint.

Our editorial: Good behavior paroles will cut costs

A new bill would establish a "presumptive parole" system in Michigan to move so-called model inmates out of prison after completing their minimum term.

Finley: Does the U.S., Obama stand with Israel?

Does America still have Israel's back?

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Morado, Irene (WDA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Tuesday, October 06, 2015 8:26 AM
To: Morado, Irene (WDA)
Subject: TIA Daily Media Update



TIA DAILY MEDIA UPDATE

Tuesday, October 6, 2015



Talent News

MICHIGAN

Snyder talks job creation, STEM and auto careers at Michigan Works conference

Snyder delivered his remarks during a general session of the 2015 Michigan Works! Annual Conference on Monday, Oct. 5.

Michigan Workers' Comp pure premiums drop second most in nation since 2011

Since 2011, when the state made changes to workers' compensation, premiums have dropped by 32.7 percent and saved employers \$327 million.

Former appeals commissioner blasts unemployment agency, joins lawsuit

Neal Young, of Grand Rapids, knows a lot about the unemployment system. In fact, he served on the Michigan Compensation Appellate Commission for several years.

Inside the new lab at University of Michigan that aims to boost battery research

A new lab at the University of Michigan aims to expand battery research and manufacturing across the Midwest.

Why the Trans-Pacific Partnership is important to Michigan's automotive industry

The TPP still has months of wrangling in Congress ahead, but a deal between the U.S. and 11 other countries was reached Monday.

ACROSS THE U.S.

Trans-Pacific Partnership Is Reached, but Faces Scrutiny in Congress

The United States, Japan and 10 other Pacific Rim nations on Monday reached final agreement on the largest regional trade accord in history.

U.S. jobs creation slowing, new surveys find

A pair of labor-market yardsticks offer more proof that the level of job creation in the U.S. has slackened off.

Legislative Update

Roads deal 'close,' says Michigan House Speaker, with plan 'on pace' to hit floor in October

The House remains the biggest hurdle for any road funding deal.



State of Michigan begins distributing water filters to Flint residents after lead problem

The state is starting to distribute free water filters to Flint residents confronting increased blood lead levels in children after a change in the city's water source.

Advocates call for Michigan gun control

With 10 more deaths in yet another mass shooting, the tired, national frustration over gun violence was vented in Lansing as advocates called on lawmakers to act.

Opinion

New state justice, like it or not, already in the political contest

The newest member of the Michigan Supreme Court has a boatload of

legal credentials, but by her own admission she knows squat about politics.

Susan J. Demas: Clinton, Trump and the problem with presidential race coverage

If there's one constant complaint I hear about the media, it's that they're biased.

Laptops right choice to prepare Bay County students for tomorrow's workplace (Editorial)

Give the right tools to students and success will certainly follow, both in school and in life.

McBroom: Courser, Gamrat expulsions warranted

The House of Representatives' ability to determine its members' qualifications and expel them when necessary is an important check and balance to the possibility of corrupt, deceptive or unqualified members

Try again, try harder to get FCA deal for UAW

Workers said they didn't hear enough specifics from UAW leaders.

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Morado, Irene (WDA)

From: Quinn, Christine (WDA)
Sent: Wednesday, August 21, 2013 9:47 AM
To: Howard, Janet (WDA); Sherer, Robert (WDA); Lautenschleger, Jim (WDA)
Cc: Morado, Irene (WDA); Pohnl, Mike (WDA)
Subject: Flint Manufacturing Roundtable....
Attachments: Invitation to Manufacturing Community Roundtable in Flint, September 4, 2013;
Invitation for September 4 Manufacturing Community Roundtable in Flint, MI

Has anyone else received this invite? Irene – this is also MAT2s event – can you assist in coordinating my calendar.
Thanks

Christine

Christine Quinn
Director
Workforce Development Agency – State of Michigan
201 N. Washington Square
Lansing, MI 48913
Office: 517.335.6772
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Morado, Irene (WDA)

From: Dayne Walling <mayor@cityofflint.com>
Sent: Tuesday, August 20, 2013 3:51 PM
To: Quinn, Christine (WDA)
Cc: Overmeyer.patricia@epa.gov; matt.ward@strategiesdc.com; chris.rossomando@emsus.com; Catherine.Sims@emsus.com
Subject: Invitation to Manufacturing Community Roundtable in Flint, September 4, 2013
Attachments: Flint-Roundtable-Draft-Agenda-August-12_V2.docx; Manufacturing-Roundtable-Overall-Briefing-Sheet.docx; Invitation-08.20.2013.pdf

On behalf of the City of Flint, I am pleased to invite you to a "Manufacturing Community Roundtable" to be held in Flint on September 4, 2013. This Roundtable will convene leadership from the federal and state governments, local governments in the region, the private sector, educational and philanthropic partners, and other key officials to discuss how to revitalize communities and boost manufacturing expansion in communities like Flint. We are pleased to be hosting this Roundtable in partnership with the Obama Administration, and are excited that Senator Debbie Stabenow and Congressman Kildee, among others, are confirmed to speak at this event. Please review the attached invitation, the Roundtable agenda, and a briefing sheet explaining our objectives. And please RSVP by responding to this email or contacting Catherine Sims at catherine.sims@emsus.com by August 23. Thank you for your consideration - I look forward to seeing you in Flint!

Mayor Dayne Walling

Enclosures (3)

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Dayne Walling
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MANUFACTURING COMMUNITY ROUNDTABLE

SEPTEMBER 4, 2013 EVENT IN FLINT, MI

DRAFT AGENDA

TUESDAY, SEPTEMBER 3

- 3PM Bus/Walking Tour of Priority Flint Manufacturing / Revitalization Sites
➤ Meeting in lobby of Charles Stewart Mott Foundation at 503 South Saginaw Street
- 5:30PM Dutch Dinner at “501 Grill” on 501 South Saginaw Street

WEDNESDAY, SEPTEMBER 4

- 9:30AM **Registration and Coffee**
- 9:45AM Welcome from **Flint Mayor Dayne Walling**
➤ Recognition of other attending local officials
- 10:00AM **Welcome from EPA Assistant Administrator Mathy Stanislaus**
- 10:10AM **Overview of Roundtable Agenda & Objectives**, Matt Ward
- 10:15AM **Keynote Speaker, U.S. Senator Debbie Stabenow**
➤ Introduced by Mayor Dayne Walling
- 10:45AM Break
- 11:00AM **Community Presentations** – Opportunities and Challenges for Manufacturing; and community responses to key questions raised by the Investing in Manufacturing Community Partnerships Initiative.
➤ Presentation by team from Flint (30 minutes)
➤ Presentation from Lansing Mayor Virg Bernero (10 minutes)
➤ Presentations from Other MI communities (10 minutes each for five communities)
- 12:30PM Lunch with Special Guest Speaker, **Congressman Dan Kildee**
- 1:30PM **Roundtable on Manufacturing Strategies, Tools & Progress**
➤ Moderated by Mayor Dayne Walling
➤ **Invited participants:** EPA Assistant Administrator Mathy Stanislaus, EDA Administrator Matt Erskine, White House Manufacturing Policy Advisor Jason Miller, EPA Senior Policy Counsel and E3 Initiative Coordinator Matt Bogoshian, Director of Auto Recovery Jay Williams, DOE Clean Energy Manufacturing Initiative Director Elizabeth Wayman, other invited participants
- 2:45PM Break
- 3:00PM **Key Action Steps**
➤ Key next action steps for a manufacturing partnership with the Flint community and region
➤ How can Flint/Michigan be a model for national action?
- 3:30PM Closing Address by Michigan **Lieutenant Governor Brian Calley**(invited)
- 4:00PM Adjourn



MANUFACTURING COMMUNITY ROUNDTABLE

FLINT, MI, SEPTEMBER 4, 2013

The Obama Administration has launched a series of initiatives to boost American manufacturing and strengthen local communities that seek to grow this critical economic sector. As part of the federal government effort to provide resources and support to the public and private sectors for manufacturing, the U.S. Environmental Protection Agency (EPA), in partnership with other federal agencies, is coordinating a series of “Manufacturing Community Roundtables” in targeted localities across the nation. These Roundtables will bring together federal officials, mayors and other local officials, state officials, and leaders from manufacturing, economic development, non-profit, philanthropic and other community organizations to identify tools and strategies for a robust resurgence of manufacturing. EPA will sponsor a Roundtable in Flint, Michigan, on September 4, 2013.

A MANUFACTURING COMMUNITY PARTNERSHIP

There is strong and growing bipartisan support at every level of government, and in the private sector, for an expansion of U.S. manufacturing and for increased investment in this critical economic sector. The Obama Administration has launched a number of initiatives and proposed a number of new approaches for growing American manufacturing and strengthening the communities that are the foundation for this sector, including among other efforts:

- ✓ **“Investing in Manufacturing Communities Partnership” (IMCP)** is an Administration-wide initiative to accelerate the resurgence of manufacturing. IMCP will help communities cultivate an environment for businesses to create well-paying manufacturing jobs in cities and communities across the country. The partnership will encourage communities to revitalize and reuse former industrial legacy sites for new production purposes. The Economic Development Administration will award as many as 25 grants of up to \$200,000 to localities to create manufacturing strategies. IMCP also is proposing to award \$113 million in IMCP grants in 2014 for implementation of the best manufacturing strategies.
- ✓ The cleanup and redevelopment of closed factories and other brownfields with new manufacturing, industrial investment and other economic development, with the support of the **EPA brownfields and land revitalization** programs, including EPA’s innovative new “Area-Wide Planning” approach to brownfields revitalization.
- ✓ Support for communities with closed auto plants and other struggles from the **Office of Recovery for Auto Communities and Workers** and the **RACER Trust**.
- ✓ Resources for **job training and workforce development** from the Department of Labor, to help retrain workers for the advanced manufacturing jobs of the future.
- ✓ Resources for **infrastructure** that will be needed for robust manufacturing, including transportation, water/sewer/stormwater, energy, economic development and other infrastructure.

To make these resources useful, delivered in a coordinated manner, and as effective as possible for localities, agencies within the Obama Administration including EPA are sponsoring a number of Manufacturing Community Roundtables. These Roundtables will help identify the best strategies for coordinating and leveraging resources, overcoming barriers using best practices and technical assistance, and forging inter-governmental and public-private partnerships to boost manufacturing success.

ROUNDTABLES

The Administration will hold a series of Manufacturing Community Roundtable events in local communities across the nation. EPA will select and sponsor several of the Roundtables. Locations will be selected based on a review of factors including the manufacturing challenges faced by targeted communities, the existence of strong public-private partnerships for manufacturing growth, the use and leveraging of resources by these communities, expressions of interest by localities, and considerations of varying geographic locations and community sizes.

EPA selected Flint Michigan for the first EPA-sponsored roundtable. Flint is a community that has faced the challenges of lost manufacturing, closed auto plants and vacant brownfields, but now is poised for a comeback with robust partnerships, investments in a number of manufacturing innovations, and an emerging master plan for revitalization. The purpose of the Flint and other Roundtables will be to:

- ✓ ***Convene Manufacturing Leadership:*** Convene between 75-125 leaders of key federal agency (White House, EPA, EDA, Labor, Auto Office, HUD, SBA, DOT, DOE, USDA and others), state government (governors' offices, economic development, infrastructure, environmental agencies), local government (mayors, city managers, economic and community development), the private sector (existing manufacturing businesses, regional economic development authorities, chambers of commerce, manufacturing associations, potential manufacturing investors), educational institutions, organizations focused on economic revitalization (Manufacturing Alliance of Communities, Center for Community Progress, Brookings Institution, and others) and non-profit groups (philanthropic foundations, community and grassroots groups).
- ✓ ***Identify Barriers and Needs for Manufacturing Growth:*** The host community and surrounding localities will have an opportunity to identify opportunities, barriers and needs for boosting manufacturing in the community and region. Each community will be asked to compose a briefing package that identifies key projects, top opportunities, barriers, needs, and a "Resource Roadmap" that outlines the ways that government and the private sector can help the locality make progress on manufacturing. Host communities will present these opportunities/needs at the commencement of the Roundtable to help set the stage for interaction and problem-solving among the event's participants. At each Roundtable, the participants will seek to identify a handful of targeted solutions, key resources, and next step actions to move manufacturing partnerships and collaboration forward.
- ✓ ***Create Model Solutions:*** The strategies and best practices identified at these Roundtables will be used to inform and drive federal program and policy efforts so that these innovative manufacturing partnership approaches can be spread across the nation.
- ✓ ***Interaction with Top Leaders:*** Each Roundtable will include an interactive exchange among invited special guests that is planned to include U.S. Senators and Representatives, Governors and State economic development directors, top federal officials including White House Manufacturing Policy officials, the EPA Assistant Administrator for Solid Waste and Emergency Response, Economic Development Administration officials, the Auto Recovery Office, and other leading voices.

For info contact Matt Ward at Sustainable Strategies DC at Matt.Ward@StrategiesDC.com/ 202.261-9880, or Patricia Overmeyer, U.S. EPA Land Revitalization Coordinator at Overmeyer.Patricia@EPA.gov/ 202.566-2774



City of Flint



Dayne Walling
Mayor

August 20, 2013

Re: Invitation to "Manufacturing Community Roundtable" in Flint, MI on September 4, 2013

Ladies and Gentlemen:

I write on behalf of the City of Flint, Michigan to invite you to participate as a guest at a "Manufacturing Community Roundtable" to be held in Flint on Wednesday, September 4, 2013. This meeting is part of a national effort to rebuild a robust manufacturing economy.

Flint and our partners are moving forward steadily on efforts to revitalize the community and re-energize the manufacturing economy. We are pleased with Flint's progress on a new master plan, Imagine Flint (www.imagineflint.com); with the cleanup and reuse planning for the RACER sites; with our partnerships with business, education, philanthropic, state and federal officials; and with the attraction of advanced manufacturing investment. You and many others have been partners in this progress, and we seek to accomplish even more with your support.

That is why Flint is excited that the Obama Administration has selected our community to host a "Manufacturing Community Roundtable" on September 4 in Flint, sponsored by U.S. EPA. The objectives of these Roundtables are to identify key strategies for helping local communities overcome barriers to expanding manufacturing and attracting new innovation – including barriers such as brownfields, empty factories, infrastructure needs, the need for workforce development resources, and other needs. I attach a briefing sheet on the Roundtable effort, and the draft agenda for the September 4 event in Flint.

I would be very grateful if you could participate in the Manufacturing Community Roundtable. The event will be from 9:30AM to 4:00PM at the Riverfront Banquet Center, 1 Riverfront Center West, in Flint. There will also be an optional bus tour of key sites and a dutch dinner on September 3. We ask you to RSVP for this event by replying to this email or to Catherine Sims at Catherine.Sims@emsus.com no later than August 23.

Thank you for your consideration, and we look forward to seeing you in Flint.

Sincerely,

Dayne Walling, Mayor
City of Flint

DW/mw
Enclosures (2)

Morado, Irene (WDA)

From: David Lloyd <Lloyd.DavidR@epa.gov>
Sent: Tuesday, August 20, 2013 3:51 PM
To: Quinn, Christine (WDA)
Cc: Overmeyer.patricia@epa.gov; matt.ward@strategiesdc.com; chris.rossomando@emsus.com; Catherine.Sims@emsus.com; Abraham.Parker@emsus.com
Subject: Invitation for September 4 Manufacturing Community Roundtable in Flint, MI
Attachments: Flint-Roundtable-Draft-Agenda-August-12_V2.docx; Manufacturing-Roundtable-Overall-Briefing-Sheet.docx; Lloyd-Flint-Participant-Invite_0820.pdf

The Obama Administration recently launched a number of new initiatives to promote manufacturing and the revitalization of communities. The U.S. Environmental Protection Agency (EPA) is contributing to these manufacturing initiatives by sponsoring a series of "Manufacturing Community Roundtables" in cities across the nation that will convene leadership from local government, state government, the manufacturing sector, federal agencies and other key stakeholders.

We would be honored if you could participate in the Manufacturing Community Roundtable at the Riverfront Banquet Center, 1 Riverfront Center West, in Flint, Michigan, on September 4, 2013. The Administration is holding this Manufacturing Community Roundtable in Flint, because the city is a proven leader in overcoming the loss of historic manufacturing, and building new advanced manufacturing innovation. Mayor Dayne Walling will be the host of this Roundtable.

We hope that you can participate in this event. A letter of invitation with additional details is attached, along with a draft agenda for the meeting and a general briefing sheet on the roundtable effort.

We ask you to RSVP no later than August 23 by replying to this email or by contacting Catherine Sims at catherine.sims@emsus.com.

David R. Lloyd, Director
Office of Brownfields and Land Revitalization Office of Solid Waste and Emergency Response
202-566-2731



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
BROWNFIELDS AND
LAND REVITALIZATION

August 20, 2013

Re: Invitation to "Manufacturing Community Roundtable" in Flint, MI on September 4, 2013

Ladies and Gentlemen:

I write from the U.S. Environmental Protection Agency (EPA) on behalf of the Obama Administration to invite you to participate as a guest at a "Manufacturing Community Roundtable" in Flint, Michigan on Wednesday, September 4, 2013. This meeting is part of a national effort to rebuild a robust manufacturing economy.

As you know from your leadership on manufacturing and community revitalization issues, our nation and states such as Michigan are poised to bring back jobs and economic revitalization through a resurgence of American manufacturing. The Obama Administration has launched a number of new initiatives to promote manufacturing and the revitalization of communities. The EPA and other federal agencies are contributing to these manufacturing initiatives by, among other efforts, launching a series of "Manufacturing Community Roundtables" in localities across the nation that will convene leaders such as you from local government, state government, the manufacturing sector, federal agencies and other key stakeholders. The objectives of these Manufacturing Community Roundtables are to identify key strategies for helping local communities overcome barriers to expanding manufacturing and attracting new innovation – including barriers such as brownfields, empty factories, infrastructure needs, the need for workforce development resources, and other needs. I attach a briefing sheet on the Roundtable effort, and the draft agenda for the September 4 event in Flint.

The Administration is holding this Manufacturing Community Roundtable in Flint, Michigan, because Flint is a proven leader in overcoming the loss of historic manufacturing, and building new advanced manufacturing innovation. Mayor Dayne Walling will be the host of this Roundtable.

We would be honored if you could participate in the Manufacturing Community Roundtable in Flint on September 4, 2013. The event will be from 9:30 AM to 4:00 PM at the Riverfront Banquet Center, 1 Riverfront Center West, in Flint. There will also be an optional bus tour of key sites and a dutch dinner on September 3. Additional information about the meeting location and the bus tour will follow. We ask you to RSVP for this event by replying to this email or to Catherine Sims at Catherine.Sims@epa.gov no later than August 23. Also, if you have suggestions for other leaders or officials who should be invited, please forward those recommendations to us so that we can send them invitations.

Thank you for your consideration, and we look forward to seeing you in Flint.

Sincerely,

David R. Lloyd, Director
Office of Brownfields and Land Revitalization
U.S. Environmental Protection Agency

DRL/mw

Enclosures (2)

Comai, Stephanie (TIA)

From: GOV Newsroom <govnewsroom@govsubscriptions.michigan.gov>
Sent: Friday, October 02, 2015 1:58 PM
To: Comai, Stephanie (TIA)
Subject: NEWS RELEASE: Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Governor Rick Snyder
REINVENTING MICHIGAN
Getting It Right. Getting It Done.

News Release

Contacts: [Sara Wurfel](#) or [Dave Murray](#)
517-335-6397

[Brad Wurfel](#), 517-284-6713
Department of Environmental Quality

FOR IMMEDIATE RELEASE
Friday, October 2, 2015

[Jennifer Eisner](#), 517-230-9804
Department of Health and Human
Services

Editor's Note: Click here for [infographic](#) and [action plan](#).

Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Collaborative effort with state, federal and city leaders focuses on testing, assistance

FLINT, Mich. – Flint residents need to have access to safe, clean, water now and long into the future, Gov. Rick Snyder said, announcing a comprehensive action plan created with state, federal and city leaders to address concerns about drinking water.

The water leaving Flint's drinking water system is safe to drink, but some families with lead plumbing in their homes or service connections could experience higher levels of lead in the water that comes out of their faucets.

The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure challenges. The plan

was created at Snyder's direction by the Michigan Departments of Environmental Quality (DEQ) and Health and Human Services (DHHS), the U.S. Environmental Protection Agency, and the city of Flint.

"We are focused on helping ensure safe, clean, accessible drinking water and addressing and mitigating concerns and protecting public health," Snyder said. "Today's action plan builds upon ongoing work with local, state and federal agencies and our partnership with city and community leaders. Together, we are working to ensure that all Flint residents have accurate information and know that help is available to address potential problems."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Testing in Flint public schools immediately to ensure that drinking water is safe, with testing also available at no cost to any other school in Flint.
- Offering free water testing to Flint residents to assure their drinking water is safe.
- Providing free water filters to residents.
- Expanding health exposure testing of individual homes.
- Accelerating corrosion controls in the Flint drinking water system.
- Accelerating water system improvements to address replacing lead service lines.
- Expediting the completion of the Karegnondi Water Authority pipeline.
- Expanding a Safe Drinking Water Technical Advisory Committee to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the Flint drinking water public health adviser.
- Boosting a comprehensive lead education program to make sure residents have detailed information about how to protect themselves and their homes.

Residents can have their water tested by calling 810-787-6537 and pressing 1, or emailing flintwater@cityofflint.com. The DEQ is covering the cost of this testing.

State leaders have been working closely with state and federal lawmakers to tap resources at all levels of government to address concerns.

State health experts said there has been an increase in elevated childhood blood lead levels in some specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, a comprehensive and detailed review breaking down data by ZIP codes with the city revealed that MDHHS data is consistent with a study presented recently by Hurley Children's Hospital.

"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active

steps to reduce all potential lead exposures in Flint,” MDHHS Director Nick Lyon said. “As part of this, we are working closely with our public and private partners to provide Flint residents on MDHHS assistance programs with free water filters and inform families about the steps they can take to reduce all lead exposures in their home.”

As a part of the action plan, National Sanitation Foundation certified water filters will be made available to Flint residents through emergency state funds and coordinated efforts with local community agencies and donors. Information about how to obtain the filters will soon be available.

“This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink,” DEQ Director Dan Wyant said. “The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint’s system as well as the water that arrives in Flint homes is safe to drink.”

Additional information is available at www.michigan.gov/flintwater.

###

STAY CONNECTED:



This email was sent to comais1@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue
· Lansing, MI 48909 · 517-335-7858

Comai, Stephanie (TIA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Thursday, October 08, 2015 8:51 AM
To: Comai, Stephanie (TIA)
Subject: TIA Daily Media Update 10/8/2015



TIA DAILY MEDIA UPDATE

Thursday, October 8, 2015



Talent News

TIA IN THE NEWS

Michigan utilities, Gov. Snyder back Careers in Energy Week

"Michigan's energy industry is a portal to rewarding careers that demand technical skills and training," said Stephanie Comai.

MICHIGAN

Gov. Rick Snyder calls on Michigan universities to collaborate

Snyder, speaking at Grand Valley State University, said a greater community connection would help more students and parents "understand the value of getting a university skill set."

Northern Michigan College Granted \$2 million for New Skilled Trades Equipment

Six departments are sharing that money to prepare students for in-demand jobs.

Monroe County provides work force that is stable, skilled, survey shows

Monroe County has more than 66,200 residents available for employment,

with their average age being 42 and 76.5 percent of them having at least some college education.

Careers in Energy Week shows path to high quality jobs

One of our biggest priorities at Capital Area Michigan Works! is to educate and guide job seekers in our current workforce, as well as the job seekers of the future, toward in-demand positions.

Macomb juvenile justice center to layoff 25 workers

Bills proposed in Lansing would raise age from 17 to 18 for when a juvenile is considered an adult in Michigan's criminal justice system

Pension checks to be cut in half for Teamsters retirees

The Central States Pension Fund, which covers Michigan truckers and others elsewhere, said its pays \$3.46 for every dollar taken in through employer contributions.

ACROSS THE U.S.

Strike averted! UAW, FCA reach tentative agreement

A new proposed tentative agreement has been reached between the UAW and Fiat Chrysler Automobiles, averting a strike at the last minute.

College Students Are Graduating Into an Incredible Job Market

Small businesses are especially hungry for talent

Legislative Update

Gov. Snyder says he'll make announcement on Flint water Thursday

Gov. Rick Snyder says on Twitter that he will make an announcement about Flint water at 10 a.m. Thursday.



Michigan lawmakers debate banning plastic microbeads in body care products

Lawmakers want to stop companies from making and selling soaps and facial cleansers with plastic microbeads in Michigan.

Forfeiture reform bills sent to Governor Snyder

The Legislature has sent bills to Governor Rick Snyder that make some big changes to Michigan's civil forfeiture law.

Former President Bill Clinton visits Michigan

Former President Bill Clinton dropped by Michigan Wednesday to collect cash for his wife's campaign.

Student Count Day in Michigan Held as Legislature
Considers Ed Funding Reforms

Lawmakers in Lansing are considering ways to change how state K-12 educational funds are distributed.

Opinion

Frank Kelley's life, Bill Schuette's lessons and 3 other political books

Former Attorney General Frank Kelley's 197-page tome traces his life hanging around his popular dad's Prohibition club to becoming the longest serving A.G. in the nation.

Waiting for answers, action in Flint water crisis

They are still waiting for answers about the water in Flint.

Our editorial: Good behavior paroles will cut costs

A new bill would establish a "presumptive parole" system in Michigan to move so-called model inmates out of prison after completing their minimum term.

Finley: Does the U.S., Obama stand with Israel?

Does America still have Israel's back?

Michigan Talent Investment Agency



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Comai, Stephanie (TIA)

From: GOV Newsroom <govnewsroom@govsubscriptions.michigan.gov>
Sent: Thursday, October 08, 2015 10:23 AM
To: Comai, Stephanie (TIA)
Subject: NEWS RELEASE: Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

Governor Rick Snyder
REINVENTING MICHIGAN
Getting It Right. Getting It Done.

News Release

CONTACTS:

Sara Wurfel or Dave Murray

Governor's Office: 517-335-6397

Brad Wurfel, 517-284-6713

Department of Environmental Quality

Jennifer Eisner, 517-230-9804

Department of Health and Human Services

Kathryn Thomas, 810-766-1734 Mott
Foundation

Jason Lorenz, 810-237-2039 City of Flint

FOR IMMEDIATE RELEASE

Thursday, Oct. 8, 2015

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, city, Mott Foundation, join to fund switch until KWA is ready

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or \$6 million, of the \$12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed. The Flint city government will provide \$2 million and the Charles Stewart Mott Foundation has committed \$4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous commitment, and the dedication of all parties to come together to protect Flint families and children."

Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues. Flint's move to the Great Lakes Water Authority is expected to cost about \$1.3 million per month until the Karegnondi Water Authority is completed next summer.

"It's heartening to know so many people are working at so many levels to bring safe, clean water back to Flint," Mott Foundation President Ridgway White said. "We believe this transitional solution is the right and necessary thing to do, and we're glad we could help the state and the city make it happen."

The move to Detroit water, which is expected to carry, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can sometimes be present in shallower rivers. Additionally, the Great Lakes Water Authority water already has additional corrosion control, using phosphates to help coat the insides of pipes and limit lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system," Flint Mayor Dayne Walling said. "I appreciate the state, the Mott Foundation, Detroit, and the county's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority, and reconnecting to Detroit is a major step that the city could not take alone given budget constraints."

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional \$3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North

Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

###

STAY CONNECTED:



This email was sent to comais1@michigan.gov on behalf of: The Executive Office of the Governor • 111 South Capitol Avenue • Lansing, MI 48909 • 517-335-7858

From: GOV Newsroom <govnewsroom@govsubscriptions.michigan.gov>
Sent: Thursday, October 15, 2015 4:55 PM
To: Comai, Stephanie (TIA)
Subject: NEWS RELEASE: Gov. Rick Snyder signs bill authorizing funding for Flint to move back to Detroit water system

Governor Rick Snyder
REINVENTING MICHIGAN
Getting It Right. Getting It Done.

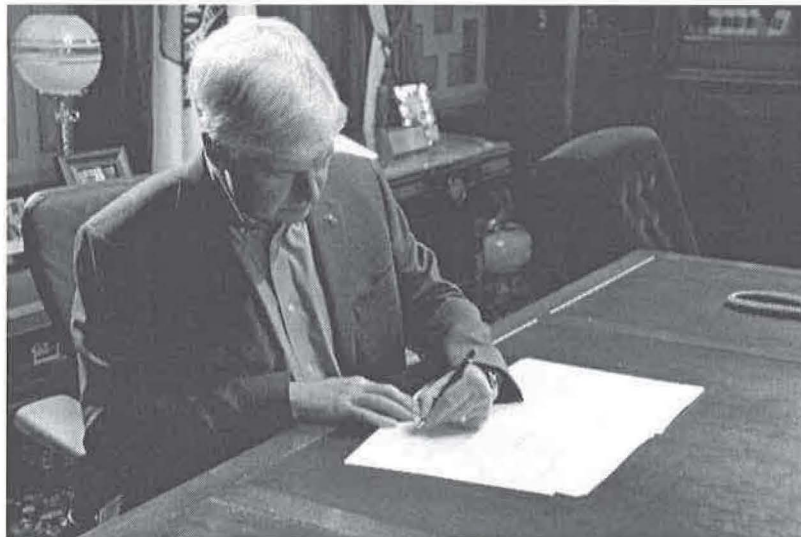
News Release

Contacts: Sara Wurfel or Dave Murray
517-335-6397

FOR IMMEDIATE RELEASE
Thursday, Oct. 15, 2015

Gov. Rick Snyder signs bill authorizing funding for Flint to move back to Detroit water system

Temporary reconnection provides best protection for public health



LANSING, Mich. – Gov. Rick Snyder has signed bipartisan legislation that will direct funding to the City of Flint's emergency water services to reconnect the city's water supply to the Great Lakes Water Authority until the Karegnondi Water Authority pipeline is completed.

"This funding is a coordinated response to a serious problem and I'm pleased so many parties came together to help deliver safe drinking water to the city of Flint," Snyder said. "Reconnecting to the Great Lakes Water Authority is only the first step, as the state will continue testing and inspections to ensure Flint families and children have clean water in their homes and schools."

House Bill 4102, sponsored by state Rep. Al Pscholka, authorizes \$6 million to move the city back to Detroit's water system until the new pipeline is finished.

In addition to the \$6 million:

- \$300,000 goes to the Department of Environmental Quality's drinking water and environmental health services;
- \$1 million will provide for DEQ to test drinking water samples;
- \$1 million allows the Department of Health and Human Services to purchase and distribute water filters to Flint residents;
- \$850,000 will aid in follow-up services for children, including testing, investigations, and case management for those with elevated blood lead levels;
- \$200,000 will fund state plumbing inspections for schools and health facilities.
- The City of Flint city government will provide \$2 million toward reconnecting the water supply and the Charles Stewart Mott Foundation has committed \$4 million.

The bill was approved unanimously in both the House and Senate and is now Public Act 143 of 2015.

For more information on this and other legislation, please visit www.legislature.mi.gov.

####

STAY CONNECTED:



This email was sent to comais1@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 · 517-335-7858

From: GOV Newsroom <govnewsroom@govsubscriptions.michigan.gov>
Sent: Wednesday, October 21, 2015 2:07 PM
To: Comai, Stephanie (TIA)
Subject: NEWS RELEASE: Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Governor Rick Snyder
REINVENTING MICHIGAN
Getting It Right. Getting It Done.

News Release

Contacts: Sara Wurfel or Dave Murray
517-335-6397

FOR IMMEDIATE RELEASE
Wednesday, Oct. 21, 2015

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining

the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of \$1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns. It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

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From: Brown, Melanie (TED)
Sent: Wednesday, December 09, 2015 3:17 PM
To: Arwood, Steve (MEDC); Comai, Stephanie (TIA); Elsenheimer, Kevin (MSHDA); Tedder, Greg (TED); Hendges, Jeremy (TED)
Subject: FW: Poll: Split over guns and prison reform, voters unite over water quality

PRESS RELEASE
December 9, 2015

For Immediate Release
Contact: Selma Tucker
Director of Marketing & Communications
(517) 484-4954, stucker@pscinc.com
Public Sector Consultants Inc.

Split over guns and prison reform, voters unite over water quality

LANSING, Mich. -- In the wake of the Flint water crisis, how concerned are voters about the safety of the water in their home? Enough to agree with each other, according to the latest Michigan's Pulse poll, a partnership of Public Sector Consultants and Michigan Radio.

From November 3 to November 5, 2015, Denno Research surveyed 600 likely voters on a range of topics, including water quality, concealed pistols, prison reform and autonomous vehicles. Beyond increased attention to urban water quality, these highly politicized topics yielded little agreement, with stark differences by political affiliation, race and age.

Water Safety

Ninety-one percent of respondents agree that the State of Michigan should examine the water systems in densely populated areas for signs of failing infrastructure. The vast majority (84 percent) also feel that water should be tested in Michigan's K-12 school buildings at least once a year.

About half of respondents (46 percent) are concerned about the safety of their water, but there are clear differences by subgroups:

- African-American voters (71 percent) are more concerned than white voters (40 percent).
- Democrats (52 percent) are more concerned than Republicans (36 percent).
- Wayne County respondents (61 percent) have higher concerns than those in other parts of the state, with 81 percent of voters in Detroit expressing concern about the safety of their water.

Concealed Pistols and Prison Reform

With the recent coverage of high-profile shootings on college and K-12 school campuses, allowing concealed pistols in these places has become a major topic for the upcoming presidential election. Under state law, those licensed to carry concealed pistols still cannot carry their weapons at schools; at day care centers, sports arenas or stadiums; at entertainment facilities that seat 2,500 or more; at bars, churches, hospitals, casinos and dormitories or classrooms of colleges or universities.

About half of voters (46 percent) support lifting the ban in some or all of these places, while (49 percent) oppose that.

- Of the Republicans polled, 65 percent support lifting the ban in some or all of these places, compared to Democrats, at 33 percent.

Less than half of respondents (40 percent) support lifting the ban in day care centers, K-12 schools and college dormitories and classrooms, with a little over half (55 percent) opposed.

- Almost half of all men polled (47 percent) and almost two-thirds of Republicans polled (62 percent) support lifting the ban; while women (34 percent), Democrats (27 percent) and Independents (34 percent) oppose doing so.

Slightly more than half of Michigan voters (53 percent) support presumptive parole, legislation recently passed by the Michigan House that automatically paroles low-risk felons after they serve their minimum sentence.

- African-Americans (74 percent) and Democrats (67 percent) are more supportive than whites (49 percent) and Republicans (40 percent).

Finally, we asked voters if they think offenders who were convicted of violent crimes under the age of 18 should be eligible for parole. The jury is clearly still out on this issue, with opinion split between yes (41 percent) and no (39 percent), with nearly a quarter (20 percent) saying they don't know or are unsure.

Robot Cars

Autonomous vehicles are currently being developed in Michigan, and some (like the Google Self-Driving Car) are already being road tested in other states. We wondered if people were comfortable with the idea of robots driving cars on Michigan's roads, and more to the point, if people thought they would make our roads safer.

- A solid majority (68 percent) are not comfortable with the idea of having driverless cars on Michigan's roads, with half (51 percent) saying they were very uncomfortable.
- A little more than half of voters (56 percent) feel that driverless cars would be more dangerous than the humans currently driving on Michigan's roads.

Despite this opposition, voters accept that this will be how people get around in the near future. Most respondents (57 percent) think that driverless cars will be common in Michigan sometime in the next five to 20 years. That buys humanity at least a few years to figure out how to prevent the cyborg invasion that is sure to follow.

Legislative Reform

In a previous PSC poll after the failure of Proposal 1, road funding was identified as a critical priority, with voters saying the legislature should work over the summer to resolve the issue. While the poll did not specifically address the merits of the \$1.2 billion package recently signed by Gov.

Rick Snyder, voters clearly do not approve of the way this issue was handled, with the vast majority rating the legislature as bad (21 percent) or terrible (58 percent).

We followed this question with a couple of options on how to improve the effectiveness of the Michigan Legislature. All of the ideas appear to have similar appeal, which seems to indicate that voters are ready for a change -- even if they don't know exactly what the change should look like:

- Stricter campaign finance and/or ethics laws (25 percent)
- Switch to a part-time legislature (21 percent)
- Do nothing because legislators can always be voted out of office if they are doing a poor job (21 percent)
- Change the length of term limits by allowing members to serve up to 12 years in either chamber (18 percent)
- Don't know/unsure (15 percent)

Goodbye Halloween

On the heels of the Halloween season, we wondered what had scared voters the most so far in 2015. While a quarter (25 percent) were not willing to express their fears out loud, those that did were scared most by the presidential debates (42 percent), followed by the Detroit Lions (22 percent).

About the Survey

Michigan Radio, an NPR News Station and the state's most listened-to public radio service, and Public Sector Consultants (PSC), the state's premier nonpartisan think tank, are partnering on a yearlong initiative studying Michiganders' attitudes toward policy issues affecting their lives in a series called Michigan's Pulse. Michigan's Pulse will release quarterly in weeklong segments on Michigan Radio's Stateside with Cynthia Canty with in-depth analysis by PSC researchers and other thought leaders.

The Michigan Radio/PSC survey of the Michigan electorate was conducted by Lansing-based Denno Research. Six-hundred respondents, 450 by landline and 150 by cell phone, in the state of Michigan were surveyed from November 3 to 5, 2015, with a margin of error of plus/minus 4 percent. A screen was employed to include only those participants who said they would vote, either at the polls or by absentee ballot, in the November 2016 general election.

Full survey results are available [here](#).

Public Sector Consultants is Michigan's most respected, connected, and dedicated research and program management firm, with specialties in governance and regulation, health care, education, energy, and environmental policy. PSC is committed to providing objective research and sound solutions to the public and private sector.

Michigan Radio is an NPR News Station, and the state's most listened-to public radio service, attracting more than 500,000 listeners each week across Michigan. Licensed to the University of Michigan, Michigan Radio broadcasts at 91.7 FM in southeastern Michigan, 91.1 FM in Flint, and 104.1 in western Michigan, and is available online at michiganradio.org.

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Comai, Stephanie (TIA)

From: Talent Investment Agency <TalentInvestmentAgency@govsubscriptions.michigan.gov>
Sent: Wednesday, December 30, 2015 8:29 AM
To: Comai, Stephanie (TIA)
Subject: TIA Daily Media Update 12/30/2015



TIA DAILY MEDIA UPDATE

Wednesday, December 30, 2015



Talent News

MICHIGAN

Jobless rates drop in 14 of 17 major Michigan labor markets

Michigan's seasonally unadjusted unemployment rates have dropped slightly in most of the state's 17 major labor markets.

Michigan Sugar to invest \$125 million at its 4 locations

Michigan Sugar Company is investing \$125 million in improvements into its four locations — including \$57 million in Croswell.

Big holiday profits for Michigan retailers

Bill Hallan with the Michigan Retailers Association says consumer confidence is at an all-time high.

Apple buds are fine despite recent warm weather

Apples are Michigan's largest and most valuable fruit crop. Michigan growers produced more than 24 million apples, or more than 1 billion pounds last year.

Wellness retailer eyes West Michigan market

A retail chain that focuses on health and wellness is looking at the Grand Rapids market.

Benefits of summer jobs include better habits, grades

Michigan WORKS! Youth Services has centers across the state, geared at finding jobs for youth and teaching them skills to succeed like writing a resume and practicing interviews.

ACROSS THE U.S.

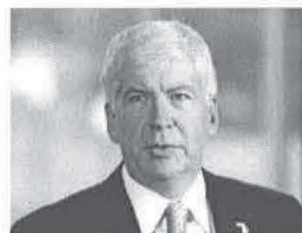
U.S. Consumers Gaining Confidence in Economy

Conference Board index climbs to 96.5 in December

Legislative Update

Snyder apologizes, Wyant resigns in Flint water crisis

Gov. Rick Snyder apologized to the City of Flint on Tuesday for the drinking water crisis.



Rep. Upton plans congressional review of concussions

The causes and after-effects of concussions will be investigated by several subcommittees of the House Energy and Commerce Committee.

Schools cry foul over bill limiting millage proposal publicity

While telling residents how to vote on ballot measures is already prohibited, the new restriction takes aim at those who've previously violated that law.

Michigan Gov. Rick Snyder, legislative leaders name biggest disappointments of 2015

The Flint drinking water crisis was the biggest disappointment of 2015, according to Gov. Rick Snyder and Senate Minority Leader Jim Ananich.

Opinion

Snyder's choice on voter options: Experts or lawmakers?

Depending on your political predilections, this may be a grand case of "don't confuse me with the facts, my mind is made up."

Legislature lets tragic failure in Detroit schools go on

Detroit kids aren't getting the most important thing they need to make it in life, a great education.

Editorial: Emergency management law working for cities

Michigan will start the year with not one of its local communities under emergency management, with the emergence of Lincoln Park from state control last week.

Michigan Talent Investment Agency



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Dungey, Cecilia (TIA)

From: Wisniewski, Wendy (GOV) <wisniewski@michigan.gov> on behalf of Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Sent: Tuesday, December 29, 2015 2:06 PM
To: Abednego, Jaime (DTMB); Allan, Jon (DEQ); Arbulu, Agustin (MDCR); Arwood, Steve (MEDC); Barnes, Jeff (DMVA); Behen, David (DTMB); Bowen, Scott (MSL); Brader, Valerie (LARA); Brown, Diane (MGCB); Burton, Diane (LARA); Carefoot, Karen (MDE); Clover Adams, Jamie (MDARD); Comai, Stephanie (TIA); Creagh, Keith (DNR); Crockett, Tracy (MSHDA); Deloney, Andrew (LARA); Donnan, Chanda (DTMB); Doyle, Maureen (Treasury); Dungey, Cecilia (TIA); Elsenheimer, Kevin (MSHDA); Etue, Kriste (MSP); Evans, Amiee (MEDC); General Gregory J. Vadnais (gregory.j.vadnais.mil@mail.mil); Grijalva, Nancy (DHHS); Hill, Nancy (DIFS); Isaacs, Carol (AG); Kalm, Rick (MGCB); Khouri, Nick (TREASURY); King, Rebecca (MCSC); Klotz, Josephine (MSP); Lyon, Nick (DHHS); 'Mason, Dace (DMVA)'; McDermott, Cristina (MSL); McPharlin, Pat (DIFS); Minix, Connie (DTMB); Quackenbush, John (LARA); Roberts, John (DTMB); Sanford, Shawn (MDCR); Sebenick, Pam (MDOT); Sederburg, Kari (DHHS); Senyko, Mike (MDOS); Simon, Sandy C. (MDOC); Smith, Brenda (MDARD); Steudle, Kirk (MDOT); Sworden, Julie (DMVA); Teszlewicz, Barbara (AG); Thelen, Mary Beth (DEQ); Tkaczyk, Judy (DNR); Vaughn, Kari (DEQ); Waalkes, Marie (DTMB); Washington, Heidi E. (MDOC); West, Samantha (LARA); Whiston, Brian (MDE); Winters, Jan (MCSC); Zimmer, Mike (LARA)
Cc: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Murray, David (GOV); Holland, Meegan (GOV); Wisniewski, Wendy (GOV)
Subject: Changes in Administration

Team,

As you are aware, we have been working closely with the independent task force that has been reviewing state, local and federal actions regarding the serious health issues related to water in Flint.

Although the task force's final report is not yet complete, members have made the Governor aware of some interim findings, and there are interim steps the Governor has decided to take immediately in order to restore trust in how we in state government keep residents safe and informed.

As part of this process, Dan Wyant, director of the Department of Environmental Quality, has offered his resignation, and Governor has reluctantly decided to accept it. There are likely to be other personnel changes in MDEQ as well.

I want to thank Dan for his service. He has been the DEQ director since the start of the administration, and previously headed the Agriculture Department under both Gov. Engler and Gov. Granholm. He is passionate about public service and protecting our state's environment.

The situation in Flint is serious and challenging. We will continue to work closely with the task force and city leaders as we move forward, committed to protecting the health of people living in Flint and around our state.

Sincerely,

Jarrod Agen